!!NA_MULTIPLE_ALIGNMENT PileUp of: us*

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1051 gcaagagcat	1001 atgcattggt atgcattggt atgcattggt attccttgac	951 gatgatgtat gatgatgtat gatgatgtat cttgatgtac	901 tcagatatgg tctgatatgg tctgatatgg tctgacatgg	851 ttaaagaggc ttaaagaggc ttaaagaggc	801 agatgctgat agatgccgat agacgccgat ggacgcccaa	751 cagctagcag cagctggcgg cagctagcag cagctagcag	701 aaaagtgtcc aaaagtgtcc aaaagtgtcc aaaagtgtcc	651 cttaagtgta cttaagcata cttaagcata gttgagttat	601 actataaaat actgtaaaat actgtaaaat acggaaaagt	551 agtatttttt aatatttttt aatatttttt aatacctggt	501 ctggttcttc ctggttcttc ctggttcttc	atgaggaaag atgaggaaag cttcgcaaag
gcatttagta	tttcttacct tttcttacct tttcttacct	ggggtatacc ggggtgtacc ggggtgtacc ggcgtctaca	ctgttacttt ctgttacttt ctgttacttt	aatgacttat aatgactaac aatgactaac catcagccaa	ggaaaagatg ggaaaagatg ggaaaagatg ggcaaagggc	tttgcctgaa tctgcctgaa tctgcctgaa cttgtctgaa	tgaacaggga tgaacaagga tgaacaagga agagcgagga	gaatcaatga gaatcaatga gaatcaatga gaagcgatga	ctggagacct ctggagacct ctggagacct ctggagacct	gttaaaaaag gttaaaaaag gttaagaaag gttggataaa	cttgcacgcc cttgcacgcc cttgcacgcc atagcgcgac	cttacaaata cttacaaata ccatccaaca
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gacatggtat	ctgacaatga ctgagaatga ctgagaatga ctgafaatga	atttgggcat atttggacat atttggacat gtacggacac	actccaaatc actcctaatc actcctaatc tcgccgagtc	aggtagtaga aggtagtaga aggtagtaga atgtggtgga	caaatctgtt caaatccgtt caaatctgtt gaagagtgtg	gtatttgcag gtatttgcag gtatttgcag gtgtttgctg	ggaagatatc ggaagatatc ggaagatatc ggaagatgtc	cagcettete cagtettete tggeettete ggaggtgttt	ggtatggaag agtgtggatg agtgtggatg gagtacgaca	agcettteta aacettteta aacettteta ageegtttta	tgctatcatt cgctgttatt cgctgttatt	caatacaggg aaatacaagg aacgccggag
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			1451	us-10-661-049-2
1450 tactcgtagc cotgaaaaa ggtttggtcc ttacctccga	gattaaagaa caaggccctg	gagaatttgt ctagcaagcg	1401 gagacctcta gagtgcttgc	us-10-661-049-2 us-10-661-049-4 us-10-661-049-8 us-10-661-049-6
gcttgtaat atatgtaaat ggggatttag ctcagtggta	tatcatttta	tatacctgtg	1351 ttattggttt ttattggttt	us-10-661-049-2 us-10-661-049-4 us-10-661-049-8 us-10-661-049-6
1350 aatotgtggt gtatotttgo aatotgtggt gtatotttgo	tagacattgt tagacattaa aaaaaaaaaaa	gactaaatta gactaaatta gactaaatta	1301 atgtgataaa atgtgataaa acgaaaaaaaaa	us-10-661-049-2 us-10-661-049-4 us-10-661-049-8 us-10-661-049-6
1300 tatttataagtatattt tatttataaa tactatattt	ttcaaacaca ttcaaaacaca	atagcaattt ataacaattt	1251 tgttttaaaa tgttttaaaa	us-10-661-049-2 us-10-661-049-4 us-10-661-049-8 us-10-661-049-6
1250 taaaatgtat taaaaataaa ttaaatgtat ttaaaaataaa tgacagtatt ttgaa	cctgagaaat tgtgag.aat tgtgtgcact	ttatatcatt ttgcatcatt ctggatcatg	1201 tgtttttccc tgtttttagcc aagtcaagtg	us-10-661-049-2 us-10-661-049-4 us-10-661-049-8 us-10-661-049-6
1200 tacaatgtca aatggaatgc tacattgtca aatggaatgc cattatgatt taatactaat	agtctgcttg agtctacttg aaatgatttg	tacccattga cacacattga gtaaaaatga	1151 tt ctggtataat gttggtgaag	us-10-661-049-2 us-10-661-049-4 us-10-661-049-8 us-10-661-049-6
1150 ctttttctta tctcttttctta tctgtttaca cgggatgaat tatttgtgaa	taatatgatt tagtatgtatt tagtatgtatt	tctaacatag tctaacacag tctaacacag	1101 Lgatgacaga tgataacaaa cagcagtgaa	us-10-661-049-2 us-10-661-049-4 us-10-661-049-8 us-10-661-049-6
gacacggtat tgtttttaat gaaactctta ctgtgactct	actatattaa ; tgtggattct ;	gcttttagta agtt	gcaagagcat	us-10-661-049-8 us-10-661-049-6

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GENALIGN - Multiple Sequence Alignment Program Release 5.4

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DELetion-weight = 5
LEngth-factor = 0
Matching-weight = 1
NUCLEIC-Res-length = 4
Spread-factor = 5
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Output line length = 80
Compress = Off
Histogram = Off
Randomization = Off
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4. US-10-661-049-8
3. US-10-661-049-6
1. US-10-661-049-2
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                                                          123 gatgcttggaagcatcttctgtgccttgatcactatgctaggcCACATTAGGATTGGAAAC
                                                                                                                                                                                                                                123 ctttAaTccaggaacccActcAgaaggtCACaATcAcCtcCAcCAtCaTttGAaaCCTgtC
                                                                                                                                                                                        84 taggÁtfiggtcatggaaAtagÁatgcacCÁCcÁfgÁgCatCÁtCÁcCtacaagctCCTaaC
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AGCAAAGATGAGCTacAgAAgTtAtccGAGtctCagATGtctgAgttcGcTATgcaGgttc
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611 ACCTTGAATATGTGAGTGTGGATGGAGGAATTGTCTTAAGCATAGAATCAATGAAAAGACT	US-10-661-
550 TTTTTGTTAAAAAAGGATCAATCCCCAACCTTTCTATCTCGGACACCACTGTAAAATCTGGAG	US-10-661- US-10-661- US-10-661- US-10-661- consensus
489 ATACAACTGGTTCTTCCTTGCACGCCCACTACTTTCGCTGTTATTGAAAACCTCAAATAT	US-10-661- US-10-661- US-10-661- US-10-661- consensus
428 ATGACATGTGGTTGATGAGGAAAGCTTACAAATATGATCATATGATCAAATACAGGGACCA	US-10-661- US-10-661- US-10-661- US-10-661- consensus
367 AAAGCAGAATTCTTCAGTTCTGAAAATGTTAAAGTGTTTGAGTCAATTAATATGGACACAA	US-10-661- US-10-661- US-10-661- US-10-661- consensus
306 AAAACCCAAAAGATGTGAAGTCTTTGGGCTGCAGTGAAGGAGACTTGGACCAAACACTGTGAC	US-10-661- US-10-661- US-10-661- US-10-661- consensus
245 TTTCAGAGGCTGAACGCATGGAGCTCAGTAAGAGTTTTCCGGGGTATACTGTATAGTTCTTGT	US-10-661- US-10-661- US-10-661- US-10-661- consensus
145 AaagAAGATatctTgaAaAttTcAgagGAtgagCgcATGgagctcagtaagAgctttcgag AgaaA-cacc-tgAat-a-catgcaa-ccaacaaaga-gatAtcttgaaaa	US-10-661- consensus

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                                                                                                                                                                                                                                                                                                                                                                                                                      916 AATGGACTGACTCCTAATCAGATGCACGTGATGATGTATGGGGTGTACCGGCTTAGGGCAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              816 aGALÁTGGCTGTLACLTTTaaTGGaCTGaCLCCaAsTCAGATGCALGTGaTGATGTALGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             855 tGACÁTGGCTATCACÁTTTGCTGGGATGtCGCCGAĞTCAGATACÂGGTCtTGATGTACGGC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AgGgatgaTtTGGAAGATaTCTGAAGAtAAaCAgCTaGCagtTTGcCTGAAaTAtgctGGA
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                                                                                                                                                                                                                                                                                                                                                                                        AATGGACTGACTCCTAATCAGATGCALGTGATGATGTATGGGGGTGTACCGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 a--gA----c-a-Ca---ca-G-agT-g-a--a-gT----t-At-Tgg---T---t-c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AATGACTAACCAAACCAAGCTAGTAGAAGGATGTTGCTCTGATATGGCTGTTACTTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GeteTTtgATTteeGAtageATeAgecAaAACCCgggCGATGTGGTGGAgGcCTGTTGTTC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     -a---gtcTt---A---Tt-CTGAA-Ag--tC-t--a--agg--Ga-TGA-tT-gaag--A
                                                                                                                                                                                  TTGGACATGTTTTCAATGATGCATTGGTTTTCTTACCTCCAAATGGTTCTGAGAATGACTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 --t---G-t-Aa-Ag-taG--G-c--cc-g--a-AaGctg-a-T---t-ca-AaaaTG--g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AATGACTAACCAAACCAAACCAGGTAGTAGAAGGCTGTTGCTCTGATATGGCTGTTACTTTC
ttggacatgttttcaatgatgcattggtt-t-T----tcc-aatggttctgagaatgactg
                                                                                                                                        TTGGACATG
                                                                                                                                                                                                                                             --t---c-g--Tc-ta-t-ag--gCA-gtg-Tga-g-ATg-g-TGtac--gcTt----CA-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    -agat-cc--Tgga-Aagat-Tg-ttaAta-C--atccg-tG-g-Tt--c-t------C
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	958	US-10-661-	
	1224	US-10-661-	
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	958	. US-10-661-	
PAPAGA	1221	US-10-661-	
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TGACtga	951	US-10-661-	
	1099	US-10-661-	
ancanarctancacagragrargrirctrirtrotrarctggrincactggtataarcacac	934		
GACAGATCTAACALAGTAATATGATTCTTTTTCTTATCT tTTAC	1099	US-10-661-	
acagaaagcaagagcatgc-tttagtaactatatta-gaca-ggtat-gtttttaattgA-		eg.	
cha cha	948	-661-	
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ACAGAAAAGCAAGAGCATGCATTTAGTAACTATATTTAGCACACACGGTATGATTTTTTAATTGAT	1038	661-	

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Total number of hits satisfying chosen parameters: 324 Minimum DB seq length: 0 Maximum DB seq length: 2000000000 1700 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 1700 Ada18403 Human sec
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182	1700	100.0	318	ADE42559	Ade42559 Human PRO	239	1700	100.0	318	8	ADG22076	Adg22076 Novel hum
183	1700	100.0	318		Add80575 Human PRO	240	1700	100.0	318		ADG20146	Adg20146 Human PRO
184	1700	100.0	318	7 ADD89603	Add89603 Human PRO	241	1700	100.0	318	8	ADF98052	Adf98052 Human PRO
185	1700	100.0		7 ADE40887	Ade40887 Human PRO	242	1700	100.0	318	8	ADG24269	Adg24269 Novel hum
186	1700	100.0	318		Ade04686 Human PRO	243	1700	100.0			ADF98623	Adf98623 Human PRO
187	1700	100.0	318		Ade92815 Human PRO	244	1700	100.0	318	8	ADG03454	Adg03454 Human PRO
168	1700	100.0	318		Adg21524 Novel hum	245	1700	100.0			ADF99175	Adf99175 Human PRO
189	1700	100.0	318		Adg23165 Novel hum	246	1700	100.0			ADG16760	Adg16760 Human PRO
190	1700	100.0	318		Adf97500 Human PRO	247	1700	100.0			ADG05219	Adg05219 Human PRO
191	1700	100.0	318		Adg80564 Human PRO	248	1700	100.0	318	8	ADG19486	Adg19486 Human PRO
192	1700	100.0	318		Adg80012 Human PRO	249	1700	100.0			ADF73594	Adf73594 Human sec
193	1700	100.0	318		Adh59457 Human sec	250	1700	100.0	318		ADG13323	Adg13323 Human PRO
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195	1700	100.0	318 7		Adh55856 Novel hum	252	1700	100.0			ADG15550	Adg15550 Human PRO
196	1700	100.0	318		Adi38236 Human sec	253	1700	100.0			ADF96948	Adf 96948 Human PRO
197	1700	100.0	318 7		Adi64075 Novel hum	254	1700	100.0			ADG06133	Adg06133 Human PRO
198	1700	100.0	318 7		Adi63523 Novel hum	255	1700	100.0			ADG23717	Adg23717 Novel hum
199	1700	100.0	318 7		Adh81937 Novel hum	256	1700	100.0			ADG04006	Adg04006 Human PRO
200	1700	100.0		ADH81385	Adh81385 Novel hum	257	1700	100.0			ADG24907	Adg24907 Novel hum
201	1700	100.0	318 7		Adj94162 Human gal	258	1700	100.0			ADG07204	Adg07204 Novel hum
202	1700	100.0		ADJ26504	Adj26504 Human sec	259	1700	100.0			ADG07756	Adg07756 Novel hum
203	1700	100.0	318		AdmB2554 Novel hum	260	1700	100.0			ADG55251	Adg55251 Novel hum
204	1700	100.0		ADN15953	Adn15953 Novel hum	261	1700	100.0			ADG60915	Adg60915 Novel hum
205	1700	100.0		ADN16582	Adn16582 Novel hum	262	1700	100.0			ADG62019	Adg62019 Novel hum
206	1700	100.0	318		Adn15401 Novel hum	263	1700	100.0			ADG92437	Adg92437 Human sec
207	1700	100.0	318 7		Adn14849 Novel hum	264	1700	100.0			ADG82220	Adg82220 Human PRO
208 209	1700 1700	100.0		AD165024	Adi65024 Novel hum	265	1700	100.0			ADG57459	Adg57459 Novel hum
210	1700	100.0	318 8 318 8		Adc81111 Novel hum	266	1700	100.0			ADG56907	Adg56907 Novel hum
211	1700	100.0	318 8		Ade79419 Human sec	267 268	1700	100.0			ADG55803	Adg55803 Novel hum
212	1700	100.0		ADD/6559	Add76559 Human PRO Add87923 Human PRO	268 269	1700 1700	100.0			ADG58563	Adg\$8563 Novel hum
213	1700	100.0		ADD86327	Add86327 Human PRO	269	1700	100.0			ADG70929	Adg70929 Novel hum
214	1700	100.0	318 8		Add88327 Human PRO Ade79843 Human sec	270 271	1700	100.0			ADG92864	Adg92864 Human sec
215	1700	100.0		ADE75775	Ade75775 Human PRO	271	1700	100.0			ADG58011	Adg58011 Novel hum
216	1700	100.0	318 8		Ade73519 Human sec	273	1700	100.0			ADG53595 ADG71481	Adg53595 Novel hum
217	1700	100.0	318 8		Ade23351 Human PRO	274	1700	100.0			ADG81668	Adg71481 Novel hum
218	1700	100.0	318 8		Ade23903 Human PRO	275	1700	100.0			ADH30630	Adg81668 Human PRO
219	1700	100.0	318 8		Ade24546 Human PRO	276	1700	100.0			ADH11997	Adh30630 Human PRO
220	1700	100.0	318 8		Add87371 Human PRO	277	1700	100.0			ADG52419	Adhl1997 Novel hum
221	1700	100.0	318 8		Ade89237 Human PRO	278	1700	100.0			ADG52419	Adg52419 Novel hum Adg54147 Novel hum
222	1700	100.0	318 8		Ade74054 Human sec	279	1700	100.0			ADG81116	Adg81116 Human PRO
223	1700	100.0	318 8		Ade18376 Human PRO	280	1700	100.0			ADG56355	
224	1700	100.0	318 8		Ade88685 Human PRO	281	1700	100.0			ADH12621	Adg56355 Novel hum
225	1700	100.0	318 8		Ade99608 Human sec	282	1700	100.0			ADG61467	Adhl2621 Novel hum
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228	1700	100.0	318 8		Ade95257 Human PRO	285	1700	100.0			ADG59739	Adg54699 Novel hum
229	1700	100.0	318 8		Ade93367 Human PRO	286	1700	100.0			ADH20653	Adg59739 Novel hum Adh20653 Human sec
230	1700	100.0	318 8		Adf34948 Human PRO	287	1700	100.0			ADH07508	Adhii sec Adhii sec
231	1700	100.0	318 8		Ade98727 Human sec	288	1700	100.0			ADH60053	Adh60053 Human sec
232	1700	100.0	318 8		Ade92263 Novel hum	289	1700	100.0			ADH07081	Adho7081 Human sec
233	1700	100.0	318 8	ADE90564	Ade90564 Human PRO	290		100.0			ADI81163	AdiB1163 Human PRO
234	1700	100.0	318 8	ADE91711	Ade91711 Novel hum	291		100.0			ADI18823	Adil8823 Human sec
235	1700	100.0	318 8	ADE99154	Ade99154 Human sec	292	1700	100.0			ADI 65543	Adi65543 Human sec
236	1700	100.0	318 8	ADG40624	Adg40624 Human sec	293		100.0			ADI37802	Adi37802 Human sec

294	1700	100.0	318	8	ADG09906	Adg09906	Novel	hum
295	1700	100.0	318	в	ADH97602	Adh97602	Human	Sec
296	1700	100.0	318	в	ADI15377	Adi15377	Novel	hum
297	1700	100.0	318	8	ADG0 9254	Adg09254	Novel	hum
298	1700	100.0	318	8	AD165970	Adi65970	Human	sec
299	1700	100.0	318	8	ADI14709	Adi14709	Novel	hum
300	1700	100.0	318	В	ADH60713	Adh60713	Human	Bec
301	1700	100.0	318	8	ADI 18304	Adi18304	Novel	hum
302	1700	100.0	318	8	ADJ99770	Adj99770	Human	Sec
303	1700	100.0	318	8	ADL08963	Ad108963	Human	Sec
304	1700	100.0	318	8	ADM25304	Adm25304	Human	80C
305	1700	100.0	318	8	ADJ63585	Ad163585	Novel	hum
306	1700	100.0	318	8	ADM30054	Adm30054	Human	sec
307	1700	100.0	318	8	ADJ77480	Adj77480	Human	PRO
308	1700	100.0	318	8	ADJ65602	Adj65602	Human	PRO
309	1700	100.0	318	8	ADM27738	Adm27738	Human	PRO
310	1700	100.0	318	8	ADM32139	Adm32139	Human	Cos
311	1700	100.0	318	8	ADM42462	Adm42462	Human	PRO
312	1700	100.0	318	В	ADO06376	Ado06376	Human	PRO
313	1700	100.0	318	8	ADM28324	Adm28324	Human	PRO
314	1700	100.0	318	8	ADR11228	Adr11228	Human	sec
315	1700	100.0	318	8	ADR18137	Adr18137	Human	sec
316	1700	100.0	318	8	ADI95806	Adi95806	Human	PRO
317	1700	100.0	318	8	AD196358	Adi96358	Novel	hum
318	1700	100.0	318	8	ADS74776	Ads74776	Human	800
319	1700	100.0	318	8	ADS32310	Ads32310	Novel	hum
320	1700	100.0	318	8	ADT03294	Adt03294	Human	PRO
321	1700	100.0	318	В	ADT03813	Adt03813	Human	SEC
322	1700	100.0	318	9	ADZ03345	Adz03345	Human	Sec.
323	1700	100.0	318	9	AEA38051	Aea38051	Human	50C
324	1700	100.0	318	9	AEB14091	Aeb14091	Cancer	ce

ALIGNMENTS

```
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AC AAY1
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DT 25-
XX
DE Amir
XX
KW Sec:
KW 2011
KW con;
KW abmir
KW abmir
KW abmir
KW wou:
KW wou:
KW wou:
KX
OS Hom
XX
PN WO9
               AAY13402 standard; protein; 318 AA.
                  AAY13402;
                  25-JUN-1999 (first entry)
                  Amino acid sequence of protein PRO310.
                 Secreted protein; transmembrane protein; human; enterocolitis; Zollinger-Ellison syndrome; gastrointestinal ulceration; congenital microvillus atrophy; skin disease; cell growth; abnormal keratinocyte differentiation; peoriesis; epithelial cancer; Parkinson's disease; Alzheimer's disease; ALS; neuropathy; fibromodulin; dermal scarring; Usher Syndrome; Atrophia areata; anti-thrombotic; wound healing; tissue repair.
                  Homo sapiens.
                  W09914328-A2.
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16-SEP-1998; 98WO-US019330. 17-SEP-1997;
17-SEP-1997;
17-SEP-1997;
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17-SEP-1997;
17-SEP-1997;
17-SEP-1997;
18-SEP-1997;
19-SEP-1997;
11-SEP-1997;
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97US-0065186P.
97US-0065846P.
97US-0065639P.
97US-0066120P.
97US-0066120P.
97US-006646P.
97US-0066710P.
97US-0066770P.
97US-0066770P.

25-MAR-1999.

(GETH) GENENTECH INC.

```
301 HIFNDALVFLPPNGSDND 318
|||||||||||||||
301 HIFNDALVFLPPNGSDND 318
           Wood WI, Gurney AL, Goddard A, Pennica D, Chen J, Yuan J;
          WPI; 1999-229533/19.
N-PSDB; AAX52273.
DR
XX
           New isolated human genes and polypeptides used in, e.g. treatment of gastrointestinal ulceration.
                                                                                                                                                                                                                           AAB18988
XX
PS
                                                                                                                                                                                                                                    AAB18988 standard; protein; 318 AA.
           Claim 12; Fig 120; 320pp; English.
        Claim 12; Fig 120; 320pp; English.

AAY1344-403 represent secreted and transmembrane human proteins. The CDNA sequences are obtained from cDNA libraries, prepared from fetal lung, fetal kidney, fetal brain, fetal liver and fetal retina. The encoded polypeptides have specific uses based on their homology to known polypeptides, e.g. PRO211 and PRO217 can be used for disorders associated with the preservation and maintenance of gastrointestinal mucosa and the repair of acute and chronic mucosal lesions (e.g. enterocolitis, Zollinger-Ellison syndrome, gastrointestinal ulceration and congenital microvillus atrophy), skin diseases associated with shnormal keratinocyte differentiation (e.g. psoriasis, epithelial cancers such as lung squamous cell carcinoma of the vulva and gliomas), potent effects on cell growth and development, diseases related to growth or survival of nerve cells including Parkinson's disease, Alzheimer's disease, ALS, neuropathies or cancer. PRO265 can be used as for fibromodulin, e.g. for reducing dermal scarring, PRO264 can be used as a target for anti-tumor drugs. PRO331 may be used in the treatment of Usher Syndrome or Atrophia areata; PRO269 can be used as an anti-thrombotic agent; PRO277 polypeptides and portions may have therapeutic applications in wound healing and tiasue repair; PRO217 can be used for treating problems of the kidney, uterus, endometrium, blood vessels, or related tissue, e.g. in the heart of genital tract
                                                                                                                                                                                                                                    AAB18988:
                                                                                                                                                                                                                                    08-FEB-2001 (first entry)
                                                                                                                                                                                                                                     Amino acid sequence of a human transmembrane protein.
                                                                                                                                                                                                                                    Human; transmembrane protein; cell proliferation disorder; myeloma; reproductive disorder; smooth muscle disorder; neurological disorder; arteriosclerosis; leukaemia; acquired immunodeficiency syndrome; AIDS allergy; ovulatory defect; angina; hypertension; stroke; epilepsy; Alzheimer's disease; Tourette's disorder.
                                                                                                                                                                                                                                                                                                                                                                          e; AIDS;
                                                                                                                                                                                                                                    Homo sapiens.
                                                                                                                                                                                                                                                                      Location/Qualifiers
56
/note= "potential phosphorylation site"
66
                                                                                                                                                                                                                                     Key
Modified-site
                                                                                                                                                                                                                                    Modified-site
                                                                                                                                                                                                                                                                      % of hote- "potential phosphorylation site"
172
/note- "potential phosphorylation site"
180
                                                                                                                                                                                                                                    Modified-site
                                                                                                                                                                                                                                                                       /note= "potential phosphorylation site"
                                                                                                                                                                                                                                    Modified-site
    Query Match 100.0%; Score 1700; DB 2; Length 318; Best Local Similarity 100.0%; Pred. No. 1e-169; Matches 318; Conservative 0; Miamatches 0; Indels 0; Gaps
                                                                                                                                                                                                                                                                       /note= "potential phosphorylation site" 254
                                                                                                                                                                                                                                    Modified-aite
                                                                                                                                                                                                                                                                      /note= "potential phosphorylation site" 313
                                                                                                                                                                                                                                    Modified-site
                         1 MLSESSSFLKGVMLGSIFCALITMLGHIRIGHGNRWHHHENHHLQAPNKGDILKISEDER 60
Οv
                                                                                                                                                                                                                                                                            ote= "potential glycosylation site"
                                                                                                                                                                                                                                    Modified-site 315
DЬ
                                                                                                                                                                                                                                                                       /note= "potential phosphorylation site"
                      61 MELSKSFRVYCIILVKPKDVSLNAAVKSTWTKHCDKAEFFSSENVKVFESINMDTNDMAL 120
Qy
                                                                                                                                                                                                                                    W0200056891-A2.
Db
                                                                                                                                                                                                                                    28-SEP-2000.
                     Qy
                                                                                                                                                                                                                                    22-MAR-2000; 2000WO-US007817.
Db
                                                                                                                                                                                                                                     22-MAR-1999; 99US-0125537P.
16-JUN-1999; 99US-0139565P.
                     181 VOMBOGIVLSVESMKRLNSLLNIPEKCPEQOGMIMKISEDKQLAVCLKYAGVFAENAEDA 240
Qy
                                                                                                                                                                                                                                    (INCY-) INCYTE PHARM INC.
DЬ
                                                                                                                                                                                                                                    Yue H, Lel P, Tang YT, Hillman JL, Reddy R, Bandman O; Baughn MR, Lu DAM, Azimzai Y, Yang J;
                    Qy
Db
                                                                                                                                                                                                                                    WPI: 2000-579485/54.
        N-PSDB: AAA96501.
                                                                                                                                                                                                                                    01-JAN-2004 (first entry)
          New human transmembrane proteins are used to treat a disease or condition associated with decreased expression of functional HTMP e.g. Tourette's disorder, angina and leukemia.
          Disclosure; Page 105-106; 130pp; English.
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The present sequence represents a human tranamembrane proteins (HTMP). Agonists and antagonists of the protein are used to treat a disease or condition associated with overexpression of the protein. Diseases and conditions which can be treated include cell proliferative, immunological, reproductive, smooth muscle and neurological disordera e.g. arteriosclerosis, myeloma, leukaemia, acquired immunodeficiency syndrome (AIDS), allergies, ovulatory defects, angins, hypertension, stroke, Alzheimer's disease, epilepsy and Tourette's disorder. The polynucleotides may be used to detect and quantify gene expression in biopsied tissues where protein expression may be correlated with disease e.g. to determine absence, presence or excess expression of HTMP or to monitor regulation of HTMP expression during therapeutic intervention
          Sequence 318 AA;
     Query Match 100.0%; Score 1700; DB 3; Length 318;
Best Local Similarity 100.0%; Pred. No. 1e-169;
Matches 318; Conservative 0; Mismatches 0; Indels 0; Gaps
                          1 MLSESSSFLKGVMLGSIFCALITMLGHIRIGHGNRMHHHEHHHLQAPNKEDILKISEDER 60 HIHIBITATION 1 MLSESSSFLKGVMLGSIFCALITMLGHIRIGHGNRMHHEHHHLQAPNKEDILKISEDER 60
Qy
рь
Ov
                        61 MELSKSFRVYCIILVKPKDVSLWAAVKETWTKHCDKAEFFSSENVKVFRSINMDTNDMWI. 120
                        DЪ
Οv
                       121 MARKAYKYAFDKYRDOYNWFFLARPTTFAIIENLKYFLLKKDPSOPFYLGHTIKSGDLEY 180
                       121 MORKAYKYAFDKYRDQYNMFFLARPTTFAIIENLKYFLLKKDPSQPFYLGHTIKSGDLEY 150
DЬ
                              VGMEGGIVLSVESMKRLNSLLNIPEKCPEQOGMIWKISEDKQLAVCLKYAGVFAENAEDA 240
Qy
Db
                              DGKOVFNTKSVGLSIKEANTYHPNQVVEGCCSDHAVTFNGLTPNQNHVNNYGVYRLRAFG 300
Oy
                     301 HIFNDALVFLPPNGSDND 318
|||||||||||||
301 HIFNDALVFLPPNGSDND 318
Оy
          ADC78653 standard; protein; 318 AA.
          ADC78653:
```

```
OI-JAN-2004 (first entry)

XX Kuman PRO310 protein.

XX Auman PRO310 protein.

XX antiinflamatory; antiulcer; cytostatic; antipsoriatic; antiparkinsonian; nootropic; neuroprotective; vasotropic; chemotaxic; angiogenic; neurotrophic; osteopathic; antiatachmatic; antiarthritic; antirheumatic; antiarteriosclerotic; cardiant; antidabetic; cerebroprotective; thrombolytic; immunomodulator; entercolitis; 201inger-Ellison syndrome; gastrointestinal ulceration; paoriasis; cancer; Parkinson's disease; Alzheimer's; Alz, neuropathy; dermal scarring; wound healing; nerve repair; thrombosis; bone; cartilage formation; angiogenesis; asthma; rheumatoid arthritis; multiple eclerosis; inflammatory disorder; attherosclerosis; cardiac injury; infertility; premature aging; AIDS; diabetes; stroke; gene therapy; transgenic; PRO; human.

XX W0200015796-A2.

XX 23-MAR-2000.

XX 16-SEP-1998; 98WO-US019330.

XX 7A (GETH) GENENTECH INC.

XX 7A (GETH) GENENTECH INC.

XX 7A (GETH) GENENTECH INC.

XX 7A (MPI; 2000-271434/23.

XX 7A (MPI; 2000-271434/23.

XX 7A (SETH) GENENTECH INC.

XX 7A (The invention relates to a novel nucleic acid encoding a PRO polypeptide.

XX 7A (The invention relates to a novel nucleic acid encoding a PRO polypeptide.

XX 7A (The invention relates to a novel nucleic acid encoding a PRO polypeptide.

XX 7A (The invention relates and polymucleotides of the invention may be useful as research tools and as therapeutics for treating enterocolitis. Zollinger-

SIlison syndrome, gastrointestinal ulceration, psoriasis, cancer, Parkinson's disease, Alsheimer's disease, ALS, neuropathics, dermal scarring and wound healing, nerve repeir, thromboels, bone and/or cartilage formation, angiogenesis, asthma, rheumatoid arthritis, multiple selerosis, inflammatory disorders, atheroaclerosis, cardiac injury, infertility, premature aging, AIDS, diabetes complications and stroke. The molecules may also be utilised during gene therapy procedures and PRO protein of the invention.
```

Query Match 100.0%; Score 1700; DB 3; Length 318; Best Local Similarity 100.0%; Pred. No. 1e-169;

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Matches 318; Conservative
                                         0; Mismatches 0; Indels
                                                                                   0; Gaps
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              Qy
Db
             Qy
DЪ
Qу
             181 VGMEGGIVLSVESMKRINSLINI PEKCPEGGGMIWKI SEDKOLAVCLKYAGVFAENAEDA 240
             181 VGMEGGIVLSVESMKRLASLLAIPEKCPEGGGMIMKISEDKQLAVCLKYAGVFAENAEDA 240
Db
             241 DGKDVFNTKSVGLSIKEANTYHPNQVVEGCCSDMAVTFNGLTPNQMHVMMYGVYRLRAFG 300
Qy
             241 DGKDVFNTKSVGLS I KBANTYHPNQVVEGCCSDMAVTFNGLTPNQMVV04YGVYRLRAFG 300
Db
            301 HIFNDALVFLPPNGSDND 318
||||||||||||||
301 HIFNDALVFLPPNGSDND 318
Qy
рЬ
RESULT 4
AAB80270
     AAB80270 standard; protein; 318 AA.
     AAB80270:
      24-APR-2001 (first entry)
      Human PRO310 protein.
     Human; PRO; dermatological; antipsoriatic; cytostatic; antiinflammatory; antiparkinsonian nootropic; neuroprotective; vulnerary; cardiant; antianquopenic; vasotropic; antiasthmatic; entirheumatic; cancer; antiarthritic; antiinfertility; antidiabetic; antivirel; diabetes; ophthalmological; gene therapy; skin disease; gastrointestinal disorder; ischeemie; inflammation.
     WO200104311-A1.
     18-JAN-2001.
     22-FEB-2000; 2000WO-US004414.
     07-JUL-1999; 99US-0143048P.
26-JUL-1999; 99US-0145698P.
28-JUL-1999; 99US-0146222P.
08-SEP-1999; 99WO-US020944.
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Qy
Db
Qу
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                 Dh
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Qy
Dh
                Qy
AAU12358
       AAU12358 standard; protein; 318 AA.
       AAU12358;
        24-OCT-2001 (first entry)
        Human PRO310 polypeptide sequence.
       Human secretory and transmembrane; PRO; mammalian; cancer; lung; breast; prostate; cervical; tumour necrosie factor-alpha; TNF-alpha; cartilage; ear; proliferation; glucose; free fatty acid; skeletal muscle; adipocyte; A-peptide; factor VIIA; gene therapy.
        Homo sapiens.
        W0200140466-A2.
        07-JUN-2001.
       01-DEC-2000; 2000WO-US032678.
       01-DEC-1999; 99WO-US028301.
       01-DEC-1999;
02-DEC-1999;
02-DEC-1999;
                                99WO-US028634
99WO-US028551
99WO-US028564
      02-DEC-1999; 99MO-US02856.
02-DEC-1999; 99MO-US028565.
09-DEC-1999; 99WO-US020569.
16-DEC-1999; 99MO-US030951.
00-DEC-1999; 99MO-US030091.
00-DEC-1999; 99MO-US03001140.
00-DEC-1999; 99MO-US031247.
00-DEC-1999; 99MO-US031247.
00-DEC-1999; 99MO-US031257.
00-DEC-1999; 99MO-US031257.
00-DEC-1999; 99MO-US031256.
18-FEB-2000; 2000MO-US000376.
18-FEB-2000; 2000MO-US0034341.
18-FEB-2000; 2000MO-US004341.
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99WO-US021090.
99MO-US021547.
99WO-US023089.
99WO-US028214.
99WO-US028564.
99WO-US028565.
99WO-US030095.
99WO-US030095.
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15-SEP-1999;
05-OCT-1999;
29-NOV-1999;
30-NOV-1999;
02-DEC-1999;
02-DEC-1999;
16-DEC-1999
                                                                99WO-US030999
                05-JAN-2000: 2000WO-U5000219.
                 (GETH ) GENERATECH INC.
                Ashkenazi AJ, Botstein D, Desnoyers L, Saton DL, Ferrara N;
Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;
Godowski PJ, Grimaldi CJ, Gurney AL, Hillen KJ, Kljavin IJ;
Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;
Williams PM, Wood WI;
                WPI; 2001-081051/09.
N-PSDB; AAP72431.
                Sixty one nucleic acids encoding PRO polypeptides which are useful in the treatment of skin diseases (e.g. paorissis), cancers (e.g. lung squamous cell carcinoms) and neurodegenerative diseases (e.g. Alzheimer's disease).
                Claim 1; Fig 120; 393pp; English.
              The present sequence is one of sixty one novel secreted and transmembra PRO polypeptides. The PRO polypeptides are useful for treating skin diseases (e.g. psoriasis), cancers (e.g. lung squamous cell carcinoma), gastrointestinal disorders (e.g. enterocolitia), neurodegenerative diseases (e.g. Alzheimer's disease, Parkinson's disease), wound repair, cardiovascular disorders (e.g. andometrial bleeding angiogenesis; ischaemias such as coronary ischaemia, atherosclerosis), inflammatory disorders (e.g. asthma, rheumatoid arthritis, multiple aclerosis), infertility, AIDS and diabetes and retinal disorders such as retinitie pigmentosum. The PRO nucleic acids have applications in molecular biology, including use as hybridization probes, and in chromosome and gene mapping
              Sequence 318 AA;

        Query Match
        100.0%;
        Score 1700;
        DB 4;
        Length 318;

        Best Local Similarity
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        Pred. No. le-169;

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        Conservative
        0;
        Mismatches
        0;
        Indels
        0;
        Gaps

                                     Qy
DЬ
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Qν
                                   61 MELSKSFRVYCIILVKPKDVSLMAAVKETWTKICDKAEFFSSERVKVFESINMOTHINMA
DЬ
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R 22-FEB-2000; 2000WO-US004914.
R 24-FEB-2000; 2000WO-US005004.
R 01-MAR-2000; 2000WO-US005004.
R 01-MAR-2000; 2000WO-US00501.
R 03-MAR-2000; 2000WO-US006319.
R 15-MAR-2000; 2000WO-US006319.
R 15-MAR-2000; 2000WO-US006319.
R 17-MAY-2000; 2000WO-US006319.
R 17-MAY-2000; 2000WO-US006319.
R 17-MAY-2000; 2000WO-US006439.
R 17-MAY-2000; 2000WO-US0014042.
R 17-MAY-2000; 2000WO-US014042.
R 18-MAY-2000; 2000WO-US014042.
R 18-MAY-2000; 2000WO-US014042.
R 18-MAY-2000; 2000WO-US014042.
R 18-MAY-2000; 2000WO-US015264.
R 18-MAY-2000; 2000WO-US015264.
R 18-JUL-2000; 2000WO-US020710.
R 11-AUZ-2000; 2000WO-US020710.
R 11-AUZ-2000; 2000WO-US020713.
R 22-MAY-2000; 2000WO-US020713.
R 23-AUZ-2000; 2000WO-US020713
```

```
polypeptides can be used to generate probes, antisense RNA/DNA, transgenic or knock out animals and can be used in gene therapy
CC
CC
XX
SQ

        Query Match
        100.0%;
        Score 1700;
        DB 4;
        Length 318;

        Best Local Similarity
        100.0%;
        Pred. No. 1e-169;

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        Indels
        0;

                                                                                   0; Indels 0; Gaps 0;
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Qу
DЬ
Qу
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DЪ
                Qy
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Qv
DЪ
Qy
                Dh
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                Dh
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ID ABU71648 standard; protein; 318 AA.
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       16-JUN-2003 (first entry)
       Human PRO polypeptide #59.
       Ruman; PRO; secreted polypeptide; transmembrane polypeptide; pathological disorder; cardiac insufficiency disorder; protein secretion; pancreas; diabetes; gastrointestinal mucosa; mucosal lesion; psoriasis; skin disease; keratinocyte differentiation; epithelial cancer; tumour; lung squamous cell carcinoma; epidermoid carcinoma; vulva; glioma; cytostatic; cardiant; endocrine; antidiabetic; gastrointestinal; antiulcer; dermatological; vulnerary.
       Homo sapiens.
       US2002146709-A1.
       10-OCT-2002.
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18-JUL-2001; 2001US-00909088.
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98WO-US019437
98WO-US025108
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11-SEP-1999; 99WO-US020904.
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15-SEP-1999; 99WO-US021547.
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10-BCC-1999; 99WO-US022513.
10-BCC-1999; 99WO-US0228514.
20-BCC-1999; 99WO-US0228564.
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16-DEC-1999; 99WO-US030995.
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16-DEC-1999; 99WO-US030995.
11-FEB-2000; 2000WO-US0001565.
22-FEB-2000; 2000WO-US0005664.
22-FEB-2000; 2000WO-US0005044.
22-FEB-2000; 2000WO-US000504.
22-WAR-2000; 2000WO-US001565.
22-WAR-2000; 2000WO-US0015264.
22-WAR-2000; 2000WO-US0015264.
28-JUL-2000; 2000WO-US0015264.
28-JUL-2000; 2000WO-US0021376.
24-JUL-2000; 2000WO-US0025550.
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02-DEC-1999;
02-DEC-1999;
16-DEC-1999;
16-DEC-1999;
        (GETH ) GENERATECH INC.
   Ashkenazi A, Botstein D, Desnoyers L, Saton DL, Ferrara N;
Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;
Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Kljavin JJ;
Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;
Williams PM, Wood WI;
     WPI: 2003-328338/31.
   Isolated nucleic acid useful for e.g., treating pathological disorders encodes a secreted or transmembrane protein.
     Claim 12; Fig 120; 473pp; English.
The invention relates to human PRO polypeptides (secreted or transmembrane polypeptides) and the polymucleotides encoding them. The PRO polypeptides and polymucleotides can be used in treating pathological disorders and tumours, in therapeutic treatment of cardiac inaudificiency disorders and in therapeutic treatment of disorders involving protein secretion by the pancreas, including diabetes. They can also be used in treating disorders sesociated with the preservation and maintenance of gastrointestinal nucesa and the repair of acute and chronic nuceaal lesions, and skin diseases associated with abnormal keratinocyte differentiation (e.g., psoriases, epithelial cancera such as lung squamous cell carcinoma, epidermoid carcinoma of the vulva and gliomas). The sequences can be used as molecular markers for protein electrophoresis purposes and can be utilised in protein-protein binding assays, biochemical screening assays, immunoassays and cell-based assays. This sequence represents a human PRO polypeptide of the invention
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99WO-US020594.

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        Pred. No. 1e-169;

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Qy
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DЪ
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DЪ
                Qy
DЬ
ov
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                 301 HIFNDALVFLPFNGSDND 318
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        26-AUG-2003 (first entry)
       Novel human secreted and transmembrane protein PRO310.
       Human; secreted and transmembrane protein; PRO; antiinflammatory; antiarteriosclerotic; cardiant; anti-infertility; anti-HIV; cytostatic; antidiabetic; gene therapy; tumour necrosis factor (TMF)-alpha release; TMF-alpha release; cell proliferation; cell differentiation; gene expression modulator; proteoglycan release; cytokine release; tumour; inflammatory disease; organ failure; atherosclerosis; cardiac injury; infertility; birth defect; premature aging; AIDS; acquired immunodeficiency syndrome; cancer; diabetic complication; chromosome mapping; gene mapping; pharmaceutical; diagnostic; biosensor; bioreactor; tissue typing.
        Homo sapiens.
        US2003032156-A1.
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13-FEB-2003.
                 06-MAY-2002; 2002US-00140474.
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PR 01-DEC-2000; 2000MO-US0031673.
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PR 22-FEE-2001; 2001US-00806520.
PR 22-MAR-2001; 2001US-0080660.
PR 09-MAR-2001; 2001US-0080689.
PR 22-MAR-2001; 2001US-008069.
PR 12-MAR-2001; 2001US-008069.
PR 12-MAR-2001; 2001US-00806016.
PR 10-MAY-2001; 2001US-00806016.
PR 11-MAY-2001; 2001US-00806018.
PR 12-MAR-2001; 2001US-00806018.
PR 12-MAR-2001; 2001US-00806018.
PR 22-MAR-2001; 2001US-00806018.
PR 22-MAR-2001; 2001US-00806018.
PR 23-MAY-2001; 2001US-0080
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inflammation, organ failure, atherosclerosis, cardiac injury,
infertility, birth defects, premature aging, axquired immunodeficiency
syndrome (AIDS), or cancer.
  Claim 12; Fig 374; 660pp; English.
              Claim 12; Fig 374; 660pp; English.

The invention describes an isolated nucleic acid (I) comprising, or which has 80 % sequence identity to, or the full-length coding sequence of, one of 275 nucleotide sequences, and which encodes a corresponding polypeptide selected from 275 amino acid sequences, where all sequences are given in the specification. The polypeptide encoded by (I) is used to detect PRO polypeptides, link a bicactive molecule to a cell expressing a PRO polypeptide, modulate a biological activity of a cell, stimulate the release of tumour necrosis factor (TRF)-alpha from human blood, modulate the uptake of glucose or free factly acid by cells, stimulate or inhibit the proliferation or differentiation of cells or gene expression, stimulate the release of proteoglycans, stimulate the release of proteoglycans, stimulate the release of proteoglycans, is timulate the release of proteoglycans, is timulate the release of proteoglycans, cimulate the release of cytokine from peripheral blood monomuclear cells, inhibit the binding of A-peptide to factor VIIA, or detect the presence of tumour in a mammal. The nucleic acid and polypeptide encoded by it, are useful for treating inflammatory diseases, organ failure, atherosclerosis, cardiac injury, infertility, birth defects, premacure aging, acquired immunodeficiency syndrome (AIDS), cancer, or diabetic complications. The nucleic acid is useful as hybridisation probes, in chromosome and gene mapping, and in generating antisense RNA or DNA. The polypeptides are useful as pharmaceuticals, diagnostics, biosensors or bioracetors. Both are useful in tissue typing. This is the amino acid sequence of a novel human secreted and transmembrane PRO polypeptide
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                Sequence 318 AA:
                     y Match 100.0%; Score 1700; DB 6; Length 318;
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Оy
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 ABU71503 standard; protein; 318 AA.
ABU71503;
10-JUN-2003 (first entry)
 Human PRO polypeptide #59.
 Human; secreted and transmembrane protein; PRO polypeptide; cancer; Alzheimer's disease; ischaemia; cytostatic; nootropic; vasotropic; neuroprotective,
 Homo sapiens.
 US2002192659-A1.
19-DEC-2002.
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28-JUL-2000; 2000WO-US020710.
24-AUG-2000; 2000WO-US023328.
                 18-SEP-2000; 2000US-00665350
                 (GETH ) GENENTECH INC.
                Ashkenazi A, Botstein D, Desnoyers L, Eaton DL, Ferrara N;
Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;
Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Kljavin JJ;
Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;
Williams PM, Wood WI;
                WPI; 2003-361832/34.
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ABU81056:
   23-JUN-2003 (first entry)
   Human PRO polypeptide #187.
  Human; PRO polypeptide; secreted and transmembrane protein; anti-PRO antibody; diagnostic assay; gene expression; diabetes; bone disorder; cartilage disorder; rheumatoid arthritis; obesity; sports injury; osteoarthritis; hyper-insulinaemia; hyporisulinaemia; hearing loss; coagulation disorder; stroke; heart attack; cardiant; antidiabetic; anorectic; vulnerary; antiathritic; osteopathic; antirheumatic; auditory; cerebroprotective; angiogenic.
   Homo sapiens.
  US2003004311-A1.
  02-JAN-2003
  19-DEC-2001; 2001US-00028072.
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26-AUG-1997; 97US-0056974P.
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New isolated nucleic acid encoding a PRO polypeptide, e.g. PRO245 or PRO1868, useful in molecular biology, chromosome and gene mapping, in generating antisense RNA and DNA, and in gene therapy.
           Claim 12; Fig 120; 474pp; English.
          The present invention relates to the isolation of novel human secreted and transmembrane proteins (PRO polypeptides), and the polymucleotide sequences encoding them. The polymucleotide sequences encoding them. The polymucleotide sequences are useful in molecular biology, as hybridisation probes, in chromosome and gene mapping, in generating antisense RNA and DNA, and in gene therapy. The polymucleotide sequences may also be used in preparing PRO polypeptides by recombinant techniques, and in generating either transgenic animals knock-out animals which, in turn, are useful in the development and screening of therapeutically useful reagents. The PRO polypeptides or their antibodies are useful in preparing a medicament for treating a condition responsive to the polypeptide or antibody, such as cancer, Altheimer's disease or ischaemia, and in various disgnostic assays. ABU71445-ABU71505 represent human PRO polypeptides of the invention
           Sequence 318 AA:

        Query Match
        100.0%;
        Score 1700;
        DB 6;
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        Best Local Similarity
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        Matches 318;
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                        Qу
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N-PSDB; ACA58574.

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16-DEC-1999; 99WO-US030095.
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02-DEC-1999; 99WO-US0310911.
03-DEC-1999; 99WO-US0311243.
03-DEC-1999; 99WO-US0311243.
05-JAN-2000; 2000MO-US000277.
06-JAN-2000; 2000MO-US000277.
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11-FEB-2000; 2000NO-US003565.
18-FEB-2000; 2000NO-US004341.
18-FEB-2000; 2000NO-US004342.
22-FEB-2000; 2000NO-US004414.
24-FEB-2000; 2000NO-US005004.
01-MAR-2000; 2000NO-US0055046.
             (GETH ) GENENTECH INC.
            Baker KP, Beresini M, Deforge L, Desnoyers L, Filvaroff E, Gao W;
Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
Smith V, Stewart TA, Tumas D, Watsnabe CK, Wood WI, Zhang Z;
             WPT - 2003-352836/33
             New isolated PRO polypeptide useful for treating diabetes, rheumatoid arthritis, sports injuries, obesity, hearing loss in mammals, stroke, or heart attack.
             Claim 12; Fig 374; 643pp; English.
           The present invention relates to the isolation of novel human PRO polypeptides, and the polynucleotide sequences encoding them. The PRO polypeptides are secreted and transmembrane proteins. The PRO polypeptides are secreted and transmembrane proteins. The PRO polypeptides and polynucleotides are useful for preparing a medicament useful in the treatment of diabetes, bone and/or cartilage disorders (e.g. theumatoid arthritis, sports injuries, osteoarthritis), obesity, hyper- or hypo-insulineemia, hearing lose, and coagulation disorders (e.g. stroke, heart attack). Anti-PRO antibodies are useful in diagnostic assays for PRO, by detecting its expression in specific cells, tissues or serum, and for affinity purification of PRO from recombinant cell culture or natural sources. ABU80870-ABU81144 represent the human PRO polypeptides of the invention. Note: The sequence data for this patent was obtained in electronic format directly from the USPTO web site at seqdata.uspto.gov/psipaDIDEntry.html
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(GETH ) GENENTECH INC.
                         Amhkenazi A, Botstein D, Desnoyers L, Eaton DL, Ferrara N;
Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard
Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Kljsvin JJ;
Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;
Williams PM, Wood WI;
                         WPI; 2003-329602/31.
                         N-PSDB; ACA60281.
                        New transmembrane polypeptides and nucleic scids encoding the polypeptides, useful in gene therapy, in chromosome identification, as chromosome markers, in generating probes and in tissue typing.
                   Claim 12; Fig 120; 484pp; English.

The invention relates to an isolated nucleic acid with at least 80% nucleic acid sequence identity to a nucleotide sequence encoding one of 61 secreted/transmembrane polypeptides, or PRO polypeptides or encoding a PRO protein extracellular domain. Also included are a vector comprising the PRO nucleic acid, a host cell comprising the vector, producing a PRO polypeptide (by culturing the host cell for the expression of the PRO polypeptide, and recovering the PRO polypeptide from the cell culture), an isolated PRO polypeptide (having at least 80% sequence identity to: (a) an amino acid sequence selected from the 61 PRO proteins; (b) an amino acid sequence encoded by s nucleic acid molecule deposited with sn ATCC number (detailed in the specification); or (c) an extracellular domain of a PRO polypeptide or to a PRO polypeptide lacking its associated signal peptide), s chimaeric molecule comprising a PRO polypeptide of fused to a haterologous amino acid sequence, an snti-PRO antibody, detecting a PRO245 or PRO1868 in a sample suspected of containing the polypeptide, linking a bioactive molecule to a cell expressing a PRO245 or PRO1868 and modulating at least one biological activity of s cell expressing a PRO245 or PRO1868. Nucleic acids which encode PRO can be used to generate either transgenic animals or knock-out animals which may be used in the development and acreening of therapeuticelly useful reagents. The nucleic acids may also be used in gene therapy, in chromosome identification, as chromosome markers, or in generating probes. The PRO polypeptides are useful as molecular markers for protein electrophoresis, and the isolated mucleic acids may be used for recombinantly expressing those markers. The PRO polypeptides and nucleic acids may be used in tissue typing. Anti-PRO antibodies are useful in diagnostic assays for PRO, and in affinity purification of PRO from recombinant cell culture or natural sources. The preent sequence represents a PRO protein
                        Claim 12; Pig 120; 484pp; English.
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AC122012 Mus muscu
AC131849 Rattus no
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Homo sapiens CIGALTI-specific chaperone 1, transcript variant 2,
mRNA (cDNA clone MGC:19947 IMAGE:3355639), complete cds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRI 08-MAR-2005
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No. Score Match Length DB ID

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KEYWORDS
SOURCE
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Hominidae; Homo.

1 (bases 1 to 1192)

AUTHORS

Strausberg RL, Feingold EA, Grouse LH, Derge JG, Klausner RD,
Collins FS, Wagner L, Shemmen CM, Schuler GD, Altschul SF, Zeeberg
B, Buetow KH, Schaefer CP, Bhat NK, Hopkins RF, Jordan H, Moore T,
Max SI, Wang J, Hsieh F, Diatchenko L, Marueina K, Farmer AA, Rubin
GM, Hong L, Stapleton M, Soares MB, Bonaldo MF, Casavant TL,
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Helton E, Ketteman M, Madan A, Rodriguez S, Sanchez A, Whiting M,
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Schmutz J, Myers RM, Butterfield YS, Krzywinski MI, Skalska U,
Smailue DE, Schnerch A, Schein JE, Jones SJ and Marra MA.
Mammalian Gene Collection Program Team

CONSRTM

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JOURNAL

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JOURNAL

PUBMED

2 (bases 1 to 1192)
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Schmatz J, Myers RM, Butterfield YS, Krzywinski MI, Skaleka U, Smallus DE, Schnerch A, Schein JE, Jones SJ and Marra MA.

CONSRTM
TITLE
Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences

JOURNAL
PUBMED 12477932
AUTHORS
AUTHORS
JOURNAL
REMARK
REMARK
REMARK
ROMMENT
On Aug 20, 2003 this sequence version replaced gi:15080349.
COMMENT
CONTACT: MGC help deek
Email: cgaphs-rdmail.nih.gov
Tissue Procurement: ATCC
CDNA Library Preparation: Rubin Laboratory
cDNA Library Preparation: Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.S. Consortium (LLNL)
DNA Sequencing by: National Institutes of Health Intramural
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Gaithersburg, Maryland;
Web site: http://www.nisc.nih.gov/
Contact: nisc mpc@mhgri.nih.gov
Akhter.N., Ayele.K., Beckstrom-Sternberg,S.M., Benjamin,B.,
Blakesley,R.M., Bouffard,G.G., Breen,K., Brinkley,C., Brooke,S.,
Dietrich,N.L., Granite,S., Guan,X., Gupta,J., Haghighi,P.,
Hansen,M., Ho,S.-L., Karlins,E., Kwong,P., Laric,P., Legaapi,R.,
McDowell,J., Pearson,R., Stantripop,S., Thomas,P.J., Touchman,J.M.,
Tsurgeon,C., Vogt,J.L., Walker,M.A., Metherby,K.D., Wiggins,L.,
Young,A., Zheng,L.-H. and Green,E.D.

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov Series: IRAL Plate: 28 Row: b Column: 21
This clone was selected for full length sequencing because it

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USA
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Center, Stanford University School of Medicine, Stanford, CA 94305
Meb site: http://www-shgs.stanford.edu
Contact: (Dickson, Mark) mcddpaxil.stanford.edu
Dickson, M., Schmutz, J., Grimwood, J., Rodriquez, A., and Myers,
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1. 1404

[Overalism*] Home, saniens*
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Kudo, T., Iwai, T., Kubota, T., Iwasaki, H., Takayma, Y., Hiruma, T.,
Inaba, N., Zhang, Y., Gotoh, M., Togayachi, A. and Narimatsu, H.
Molecular Cloning and Characterization of a Movel
UDP-Gal:GalMAcalpha Peptide beta 1,3-Galactosyltransferase
(CIGal-T2), an Enzyme Synthesizing a Core 1 Structure of O-Glycan
J. Biol. Chem. 277 (49), 47724-47731 (2002)
12361956
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Kudo, T., Iwai, T., Iwasaki, H., Gotoh, M., Inaba, N., Hiruma, T.,
Togayachi, A. and Narimatsu, H.
Direct Submission
Submitted (19-APR-2002) Takashi Kudo, National Institute of
Advanced Industrial Science and Technology, Laboratory of Gene
   AUTHORS
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Function Analysis, Institute of Molecular and Cell Biology;
Central-2, 1-1-1 Umezono, Tsukuba, Ibaraki 305-8586, Japan
(5-mail:t.kudo@aist.go.; pp. Tel:81-298-61-3197, Fax:81-298-61-3191)
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REFERENCE
                                   Venter, C.J., Adams, N.C., Li, P.W. and Myers, E.W.

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                                   PE Corporation (NY) (US)
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.

1 (bases 1 to 1492)
Ju.T. and Cummings.R.D.

A unique molecular chaperone Cosmc required for activity of the
mammalian core 1 {beta}3-galactosyltransferase
Proc. Natl. Acad. Sci. U.S.A. (2002)
12464682
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Ju.T. and Cummings.R.D.
Direct Submission
Submitted (05-OCT-2002) Biochemistry & Molecular Biology,
University of Oklahoma Health Sciences Center, 975 NE 10th Street,
BRC 417, Oklahoma City, OK 73104, USA
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1 (bases 1 to 1572)
Wood, W.I., Gurney, A.L., Goddard, A., Pennica, D., Zheng, J. and
Yuan, J.
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PD 27-AUG-2002
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24-NOV-1997 US 60/066770,24-NOV-1997 US 60/066610 PR
24-NOV-1997 US 60/066770,24-NOV-1997 US 60/066840 PI
MILLIAM I MOCO,AUSTIN L GURNEY,AUDREY GODDARD,DIAME PENNICA, PI
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Homo sapiens (human)

Homo sapiens Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Butheria; Euarchontoglires; Primates; Catarrhini;

Hominidae; Homo.

1 (bases 1 to 1572)

Wood, W.I., Gurney, A.L., Goddard, A., Pennica, D., Zheng, J. and

Yuan, J.

Secretory and transmembrane polypeptide and nucleic acid encoding
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			L GURNEY, AUDREY				
	JIAN ZHENG.	000, 400111	D COMMET, NODERS	GCDDMACD	,DIANS FEN	·ich, Fi	
	PI JEAN Y	MAN					
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	FT Source						
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~.	/1 PPC1 PPC						
ОУ			CATTAGGATTGGTCAT)
n- ·	41 770170	111111111111	<u> </u>	11111111	111111111111	1111111	
Db 1	11 FIGATCACT	A I OCTAGUACA	CATTAGGATTGGTCAT	GUAAATA	GAATGCACÇA(CATGAG 200)
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1 (bases 1 to 1572)
Ashkenazi,A., Botstein,D., Desnoyers,L., Eaton,D.L., Ferrara,N.,
Filvaroff,B., Fong,S., Gac,M.-Q., Gerber,H., Gerritsen,M.S.,
Goddward,A., Goddwaki,P.J., Grimaldi,J.C., Gurney,A.L., Hillan,K.J.,
Kljavin,I.J., Mather,J.P., Pan,J., Paoni,N.F., Roy,M.A.,
Stewart,T.A., Tumas,D., Williams,P.M. and Mood,W.I.
Secreted and transmembrane polypeptides and nucleic acids encoding
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οъ
Qy
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1 (bases 1 to 1572)
Ashkenazi,A., Botstein,D., Desnoyers,L., Saton,D.L., Ferrara,N.,
Filvaroff,B., Fong,S., Gao,W.-Q., Gerber,H., Gerritsen,M.S.,
Goddard,A., Godowski,P.J., Grimeldi,J.C., Gurney,A.L., Hillan,K.J.,
Kljavin,I.J., Mather,J.P., Pan,J., Psoni,N.P., Roy,M.A.,
Stewart,T.A., Tumas,D., Williams,P.M. and Wood,W.I.
Secreted and transmembrane polypeptides and nucleic acids encoding
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Genentech, Inc.; South San Francisco, CA
  JOURNAL
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1 (bases 1 to 1572)
Desnoyers,L., Goddard,A., Godowski,P.J., Gurney,A.L., Mather,J.P.,
Williams,P.M. and Wood,W.I.
Secreted and transmembrane polypeptides and nucleic acids encoding
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Generach, Inc.; South San Prancisco, CA
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1 (bases 1 to 1572)
1 (bases 1 to 1572)
Desnoyers,L., Goddard,A., Goddowski,P.J., Gurney,A.L. and Wood,W.I.
Secreted and transmembrane polypeptides and nucleic acids encoding REFERENCE AUTHORS TITLE Patent: US 6767995-A 340 27-JUL-2004; Genentech, Inc.; South San Prancisco, CA Location/Qualifiers 1. .1572 JOURNAL FEATURES /organism="unknown"
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Ashkenazi.A., Botatein,D., Desnoyers,L., Eaton,D.L., Ferrara,N.,
Filvaroff,E., Fong,S., Gao,N.-O., Gerber,H., Gerritsen,M.E.,
Goddard,A., Godowski,P.J., Crimaldi,J.C., Gurney,A.L., Hillan,K.J.,
Kljavin,I.J., Mather,J.P., Pan,J., Paoni,N.F., Roy,M.A.,
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Secreted and transmembrane polypeptides and nucleic acids encoding
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1 (bases 1 to 1572) Goddard, A., Godowski, P.J., Gurney, A.L., Desnoyers, L. and Wood, W.I. Secreted and transmembrane polypeptides and nucleic acids encoding the same
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Secreted and transmembrane polypeptides and nucleic acids encoding
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Gao,W.Q., Gerritsen,M.B., Goddard,A., Godowski,P.J., Gurney,A.L.,
Sherwood,S., Smith,V., Stewart,T.A., Tumas,D., Watanabe,C.K.,
Wood,W.L. and Zhang,Z.
Secreted and transmembrane polypeptides and nucleic acids encoding
   AUTHORS
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Patent: WO 0140466-A 373 07-JUN-2001;
   JOURNAL
                 Genentech Inc. (US)
Location/Qualifiers
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Hominidae; Homo.
REFERENCE
                    l Ashkenazi,A.J., Botstein,D., Desnoyers,L., Baton,D.L., Ferrara,N., Filvaroff,B., Fong,S., Gao,M.O., Gerber,H., Gerritsen,M.E., Goddard,A., Godowski,P.J., Grimsldi,C.J., Gurney,A.L., Hillan,K.J., Kljavin,I.J., Mather,J.P., Pan,J., Panni,N.F., Roy,M.A., Stewart,T.A., Tumas,D., Williams,P.M. and Wood,W.I.
Secreted and transmembrane polypeptides and nucleic acids encoding
   AUTHORS
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                     the same
Patent: WO 0104311-A 340 18-JAN-2001;
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Genentech Inc. (US)
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Best Local Similarity 100.0%; Pred. No. 3.4e-201;
Matches 957; Conservative 0; Mismatches 0; Indele 0; Gaps
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Hominidae; Homo.

1 (bases 1 to 1572)
Clark,H.F., Gurney,A.L., Abaya,S., Baker,K., Baldwin,D., Brush,J.,
Chen,J., Chow,B., Chui,C., Crowley,C., Currell,B., Deuel,B.,
Dowd,P., Baton,D., Foster,J., Grimaldi,C., Gu,O., Hase,P.E.,
Heldens,S., Huang,A., Kim,H.S., Klimovski,L., Jin,Y., Johnson,S.,
Les,J., Lewis,L., Liao,D., Mark,H., Robbie,S., Sanchez,C.,
Schoenfeld,J., Seshagiri,S., Simones,L., Singh,J., Smith,V.,
Stinsen,J., Vagts,A., Vandlen,R., Watanabe,C., Wieand,D., Woode,K.,
Kie,M.H., Yaneura,D., Yi,S., Yu,G., Yuan,J., Zhang,M., Zhang,Z.,
Goddard,A., Wood,W.I. and Godowski,P.
The Secreted Protein Discovery Initiative (SPDI), a Large-Scale
Effort to Identify Novel Human Secreted and Transmembrane Proteins:
A Bioinformatica Assessment
Genome Res. 13 (10), 2265-2270 (2003)
12975309
2 (bases 1 to 1572)
Clark,H.F.
Direct Submission
Submitted (01-AUG-2003) Department of Bioinformatics, Genentech,
Inc., 1 DNA Way, South San Francisco, CA 94080, USA
Location/Qualifiers
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Local Similarity 100.0%; Pred. No. 3.4e-201;
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ov
DЬ
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between neighboring data submissions.

This sequence was finished as follows unless otherwise noted; all regions were double stranded, sequenced with an alternate chemistry, or covered by high quality data (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by sequence from more than one subclone; and the assembly was confirmed by

MAPPING INFORMATION:

MAPPING INFORMATION:
This sequence was generated from part of bacterial clone contigs of
human chromosome X, constructed by the chromosome X mapping group
at the Sanger Centre, Wellcome Trust Genome Campus, Hinxton, UK.
Further information can be found at
http://www.sanger.ac.uk/HGP/ChrX/

SOURCE INFORMATION:
This clone was derived from human PAC library RPCI-4, prepared by
Pieter de Jong and coworkers at the Roswell Park Cancer Institute
(http://bacpac.med.buffalo.edu) using the method described by
Ioannou et al., Nature Genetics 6:84-9 (1994). The library is from

IGANDOU et al., Nature Generics Configuration one male donor.

The clone may be obtained either from Geneme Systems, Inc. (http://www.resgen.com); or Research Genetics, Inc. (http://www.resgen.com); or from Pieter de Jong.

VECTOR: PCYPAC2

NEIGHBORING SEQUENCE INFORMATION:

The clone sequenced to the right is RP1-321ES. Actual start of this clone is at base position 1 of RP4-655L22.

FEATURES

RP4-655L22 contains a transposon in the unfinshed region of the clone, which is not part of the submitted sequence.

Location/Qualifiers

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DEFINITION
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KEYWORDS
SOURCE
ORGANISM HTG. Homo sapiens (human) None saptions

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Sutheria; Euarchontoglires; Primates; Catarrhini;

Hominidae; Homo.

1 (bases 1 to 158907)

Sulston, J. E. and Waterston, R.

Toward a complete human genome sequence

Genome Res. 8 (11), 1097-1108 (1998)

9847074

2 (bases 1 to 158907)

Harkins, R., Drone, K., LaPlant, Y. and Le, T.

The sequence of Homo sapiens PAC clone RP4-655L22

Unpublished

3 (bases 1 to 158907)

Materston, R. H. REFERENCE AUTHORS TITLE JOURNAL PUBMED REFERENCE AUTHORS TITLE JOURNAL REFERENCE Waterston, R.H. Direct Submission AUTHORS TITLE Direct Submission

Submitted (15-OCT-1999) Genome Sequencing Center, Washington

University School of Medicine, 4444 Forest Park Parkway, St. Louis,

MO 63108, USA

4 (bases 1 to 158907)

Waterston, R. H.

Direct Submission

Submitted (04-MAY-2000) Genome Sequencing Center, Washington

University School of Medicine, 4444 Forest Park Parkway, St. Louis,

MO 63108, USA

5 (bases 1 to 158907)

Waterston, R. H.

Direct Submission

Submitted (12-JUN-2000) Genome Sequencing Center, Washington

University School of Medicine, 4444 Forest Park Parkway, St. Louis,

MO 63108, USA

6 (bases 1 to 158907)

Waterston, R. H.

Direct Submission

Submitted (12-JUN-2000) Genome Sequencing Center, Washington

University School of Medicine, 4444 Forest Park Parkway, St. Louis,

MO 63108, USA

6 (bases 1 to 158907)

Waterston, R.

Direct Submission JOURNAL. REFERENCE AUTHORS TITLE JOURNAL REFERENCE AUTHORS TITLE JOURNAL REFERENCE AUTHORS COMMENT

NOTICE: This sequence may not represent the entire insert of this clone. It may be shorter because we only sequence overlapping clone sections once, or longer because we provide a small overlap

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Ferrie,A.M., Yu,G.L., Ni,J. and Feng,P. 86 human secreted proteins Patent: JP 2002514090-A 24 14-MAY-2002;
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DЬ
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DЬ
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RESULT 29 CO855181

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Ruben,S.M., Ni,J., Romen,C.A., Ebner,R., Young,P., Moore,P.A.,
Feng,P., LaPleur,D.W., Olsen,H.S., Yanggu,S., Brewer,L.A.,
Greene,J.M., Ferrie,A.M. and Yu,G.L.
86 Human Secreted Proteins
Patent: EP 1439189-A 25 21-JUL-2004;
Human Genome Sciences, Inc. (US)
Location/Oualitiers
1. 1376
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Unclassified.
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Tang, Y.T., Zhou, P. and Drmanac, R.T.
Nucleic acids and polypeptides
Patent: US 6569662-A 831 27-MAY-2003;
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Ολ	721 GATOGAAAAGATGTATTTAATACCAAATCTGTTGGGCTTTCTATTAAAGAGGCAATGACT 780	GVFAENAEDADGKDVFNTKSVGLS I KEANTYHPNQVVEGCCSDMAVTFNGLTPNQMHV
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AUTHORS TITLE	Compositions and methods for the therapy and diagnosis of ovarian	Db 854 CCTICTCAXTATCCCAGAAAGTUTCCTGAACAGGGAGGGATGATTTGGAAGATATCCGA 913
JOURNAL	and endometrial cancer	Oy 657 AGATANACAGCTAGCAGTTTGCCTGANATATGCTGGAGTATTTGCAGANATAGCAGAAGA 716
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8011	rce 11495	7/J

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Search completed: April 7, 2006, 08:26:50 Job time : 5120 secs

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congenital microvillus atrophy; skin disease; cell growth;
abnormal keratinocyte differentiation; psoriasis; epithelial cancer;
Parkinson's disease; Alzheimer's disease; ALS; neuropathy; fibromodulin;
dermal scarring; Usher Syndrome; Atrophia areata; anti-thrombotic;
wound healing; tissue repair; ss.
      Homo sapiens.
     W09914328-A2.
     25-MAR-1999.
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New isolated human genes and polypeptides used in, e.g. treatment of gastrointestinal ulceration.
              Claim 2; Fig 119; 320pp; English.
            Claim 2: Fig 119; 320pp; English.

AAX5213-74 encode secreted and transmembrane human proteins, and are obtained from cDNA libraries, prepared from fetal lung, fetal kidney, fetal brain, fetal liver and fetal ratina. The encoded polypeptides have specific uses based on their homology to known polypeptides. e.g. PRO211 and PRO217 can be used for disorders associated with the preservation and maintenance of gastrointestinal mucosa and the repair of acute and chronic mucosal lesions (e.g. enterocolitis, Zollinger-Ellison syndrome, gastrointestinal ulceration and congenital microvillus atrophy), skin diseases associated with abnormal keratinocyte differentiation (e.g. psoriasis, epithelial cancers such as lung squamous cell carcinoma of the vulva and gliomas), potent effects on cell growth and development, diseases related to growth or survival of nerve cells including Parkinson's disease, Alzheimer's disease, ALS, neuropathies or cancer. PRO255 can be used as for fibromodulin, e.g. for reducing dermal scarring. PRO264 can be used as a target for anti-tumor drugs. PRO333 may be used in the treatment of Usher Syndrome or Atrophia areata; PRO269 can be used as an anti-thrombotic agent; PRO287 polypeptides and portions may have therapeutic applications in wound healing and tissue repair; PRO317 can be used for treating problems of the kidney, uterus, endometrium, blood vessels, or related tissue, e.g. in the heart of genital tract
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 (GETH ) GENENTECH INC.
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              WPI; 2000-271434/23.
P-PSDB; ADC78653.
              Novel nucleic acids encoding secreted and transmembrane polypeptides with homology, e.g. to growth and cancer-associated antigens.
              Claim 2; SEQ ID NO 340; 355pp; English.
            The invention relates to a novel nucleic acid encoding a PRO polypeptide. The polypeptides and polynucleotides of the invention may be useful as research tools and as therapeutics for treating enterocolitis, Zollinger-Blison syndrome, gastrointestinal ulceration, psoriasis, cancer, Parkinson's disease, Alzheimer's disease, ALS, neuropathies, dermal scarring and wound healing, nerve repair, thrombosis, bone and/or cartilage formation, angiogenesis, asthma, rheumatoid arthritis, multiple sclerosis, inflammatory disorders, atherosclerosis, cardiac injury, infertility, premature aging, AIDS, diabetes complications and stroke. The molecules may also be utilised during gene therapy procedures and transgenic animal production. The current sequence is that of the human PRO cDNA of the invention.
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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3	957	100.0	1572	3	US-09-902-775A-340	Sequence 340, App
4	957	100.0	1572	3	US-09-906-700-340	Sequence 340, App
5	957	100.0	1572	3	US-09-903-603A-340	Sequence 340, App
6	957	100.0	1572	3	US-09-904-920A-340	Sequence 340, App
7	957	100.0	1572	3	US-09-909-064-340	Sequence 340, App
8	957	100.0	1572	3	US-09-905-381A-340	Sequence 340, App

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APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Goddard, A.
APPLICANT: Goddard, F.
APPLICANT: Godrawid, Paul J.
APPLICANT: Godrawid, Paul J.
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APPLICANT: Hillen, Kenneth, J.
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APPLICANT: Hallen, Jennie P.
APPLICANT: Mather, Jennie P.
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APPLICANT: Williams, P.
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; APPLICANT: Genentech, Inc.;
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botatein, David
; APPLICANT: Benopere, Luc
; APPLICANT: Eston, Dan L.
; APPLICANT: Farrar, Napoleone
; APPLICANT: Fivaroff, Ellen
; APPLICANT: Fivaroff, Blen
; APPLICANT: Gao, Mei-Qiang
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; APPLICANT: Gerber, Hanspeter

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APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Besnoyers, Luc
APPLICANT: Saton, Dan L.
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; APPLICANT: Feivere, Napoleone
; APPLICANT: Fiveroff, Ellen
APPLICANT: Goo, Nei-Qiang
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APPLICANT: Geritten, Mary E.
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                                                 901 CATATTTCAATGATGCATTGGTTTTCTTACCTCCAATGGTTCTGACAATGACTGA 957
   Qy
   DЬ
RESULT 4

US-09-906-700-340
; Sequence 340, Application US/09906700
; Patent No. 6733515
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Genentech, Inc.
; APPLICANT: Botstein, David
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan L.
; APPLICANT: Fare, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Genentech, Inc.
; APPLICANT: Genentech, Ellen
; APPLICANT: Genentech, Ellen
; APPLICANT: Genentech, Ellen
; APPLICANT: Genentech, Ellen
; APPLICANT: Gerber, Hanepeter
; APPLICANT: Gerber, Hanepeter
; APPLICANT: Goddard, A.
; APPLICANT: Goddard, A.
; APPLICANT: Goddard, A.
; APPLICANT: Godwski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Hillann, Kenneth, J.
; APPLICANT: Hillann, Kenneth, J.
; APPLICANT: Hillann, Fenneth, J.
; APPLICANT: Paoni, Nicholae F.
; APPLICANT: Paoni, Nicholae F.
; APPLICANT: Tumea, Daniel
; APPLICANT: Tumea, Daniel
; APPLICANT: Williamn, P. Mickey
; APPLICANT: Mood, Milliamn, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and File REFREENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/906,700
; CURRENT FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
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DЪ
       Qy
DЪ
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Qy
рь
       Qy
DЬ
ov
       541 GTG
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Qу
Db
       721 GATOGAMAGATOTATTAATACCAMATCTOTTOGGCTTTCTATTAAAGAGGCAATGACT 780
Qу
рb
       781 TATCACCCCAACCAGGTAGTAGAAGGCTGTTGTTCAGATATGGCTGTTACTTTTAATGGA 840
ov
DЬ
       841 CTGACTCCAAATCAGATGCATGTGATGATGATGTATGGGGTATACCGCCTTAGGGCATTTGGG 900
Qy
DЬ
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US-09-903-603A-340
; Sequence 340, Application US/09903603A; Patent No. 6767995; GENERAL INFORMATION:
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APPLICANT: Genentach, Inc.
APPLICANT: Botain, David
APPLICANT: Destoin, David
APPLICANT: Destoin, David
APPLICANT: Desnoyers, Luc
APPLICANT: Perrara, Napoleone
APPLICANT: Genes, Sherman
APPLICANT: Gao, Mei-Giang
APPLICANT: Geo, Mei-Giang
APPLICANT: Gerritsen, Mary E.
APPLICANT: Gerritsen, Mary E.
APPLICANT: Godowski, Paul J.
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Gurney, Austin L.
APPLICANT: Gurney, Austin L.
APPLICANT: Gijavin, Ivar J.
APPLICANT: Kijavin, Ivar J.
APPLICANT: Kijavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Moy, Margaret Ann
APPLICANT: Mather, Jennie P.
APPLICA
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DЪ
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O٧
Db
٥v
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DЬ
                      901 CATATTTCAATGATGCATTGGTTTTCTTACCTCCAAATGGTTCTGACAATGACTGA 957
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DЪ
 APPLICANT: Garber, Hampeter APPLICANT: Goddard, A
APPLICANT: Goddard, APPLICANT: Grimald: Certer, Hampeter
APPLICANT: Generate Avi
APPLICANT: Benoyers, Luc
APPLICANT: Benoyers, Luc
APPLICANT: Betony Luc
APPLICANT: Betony Luc
APPLICANT: Betony Luc
APPLICANT: Betony Luc
APPLICANT: Ferrars, Napoleone
APPLICANT: Fiveroff, Ellen
APPLICANT: God, Wei-Clang
APPLICANT: God, Wei-Clang
APPLICANT: Gerber, Hampeter
APPLICANT: Gerber, Hampeter
APPLICANT: Geritsen, Mary E.
APPLICANT: Goddard, A.
APPLICANT: Goddard, A.
APPLICANT: Goddard, A.
APPLICANT: Goddard, A.
APPLICANT: Kijavin, Ivar J.
APPLICANT: Kijavin, Ivar J.
APPLICANT: Kijavin, Ivar J.
APPLICANT: Kijavin, Ivar J.
APPLICANT: Roy, Margaret Ann
APPLICANT: Roy, Margaret Ann
APPLICANT: Roy, Margaret Ann
APPLICANT: Tumes, Deniel
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
RESULT 6
US-09-904-920A-340
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PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 340
LENGTH: 1572
TYPE: DNA
 ; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-903-603A-340

        Query Match
        100.0%;
        Score 957;
        DB 3;
        Length 1572;

        Best Local Similarity
        100.0%;
        Pred. No. 1.1e-279;

        Matches 957;
        Conservative
        0;
        Mismatches
        0;
        Indels
        0;
        Gaps

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Qy
 DЪ
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201 CATCATCACCACCACAACAAAGAAGATATCTTGAAAATTTCAGAGGATGAGGGC
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               Qy
DΡ
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Qγ
DЪ
Qy
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```
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CUURENT APPLICATION NUMBER: US/09/904,920A
; CUURENT FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US FOTUSOO/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR FILING DATE: 2000-02-22
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-26
; PRIOR FILING DATE: 1999-07-26
; PRIOR PILING DATE: 1999-07-26
; PRIOR PILING DATE: 1999-07-26
; PRIOR PILING DATE: 1999-07-28
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; PRIOR PILING DATE: 1999-12-09
; PRIOR PILING DATE: 1999-12-09
; PRIOR PILING
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Db
        Qy
DЪ
Qy
Db
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рb
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DЬ
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Db
         901 CATATTTCAATGATGCATTGGTTTTCTTACCTCCAAATGGTTCTGACAATGACTGA 957
Qy
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PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30991
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US09/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR FILING DATE: 1000-01-05
NUMBER: PCT/US00/00219
SEQ ID NO 340
LENGTH: 1572
TYPE: DNA
; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-909-064-340
   Query Match 100.0%; Score 957; DB 3; Length 1572;
Best Local Similarity 100.0%; Pred. No. 1.1e-279;
Matches 957; Conservative 0; Mismatches 0; Indels 0; Gaps
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DЬ
               121 CATCATCACCTACAAGCTCCTAACAAAGAAGATATCTTGAAAATTTCAGAGGATGAGGGC 180
Qv
DЬ
Qу
               181 ATGGAGCTCAGTAAGAGCTTTCGAGTATACTGTATTATCCTTGTAAAACCCAAAGATGTG 240
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               241 AGTETTTGGGCTGCAGTAAAGGAGACTTGGACCAAACACTGTGACAAAGCAGAGTTCTTC 300
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               361 ATGATGAGAMAGCTTACAATACGCCTTTGATAAGTATAGAGACCAATACAACTGGTTC 420
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DЬ
               421 TTCCTTGCACGCCCCCCTACGTTTGCTATCATTGAAAACCTAAAGTATTTTTTGTTAAAA 480
Qу
DЬ
               501 TTC
Oy
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RESULT 7

US-09-090-064-140

; Sequence 340, Application US/09909064

; Petent No. 6818449

GENERAL INFORMATION:

APPLICANT: Genentech, Inc.

APPLICANT: Genentech, Inc.

APPLICANT: Botatein, David

APPLICANT: Between, Luc

APPLICANT: Between, Luc

APPLICANT: Between, Luc

APPLICANT: Between, Dan L.

APPLICANT: Ferrare, Napoleone

APPLICANT: Ferrare, Napoleone

APPLICANT: Forgramma

APPLICANT: Gong, Sherman

APPLICANT: Goodware, Mary E.

APPLICANT: Godware, Mary E.

APPLICANT: Godware, Paul J.

APPLICANT: Godware, Paul J.

APPLICANT: Gurney, Austin L.

APPLICANT: Glimeldi, Christopher J.

APPLICANT: Hilan, Kenneth, J.

APPLICANT: Hilan, Kenneth, J.

APPLICANT: Hilan, Kenneth, J.

APPLICANT: Hilan, Kenneth, J.

APPLICANT: Applica
```

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DЪ
             561 AAGGATCCATCACAGCCTTTCTATCTAGGCCACACTATAAAATCTGGAGACCTTGAATAT 620
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              541 GTGGGTATGGAAGGAGGAATTGTCTTAAGTGTAGAATCAATGAAAAGACTTAACAG
              Db
Qу
              601 CTCAATATCCCAGAAAAGTGTCCTGAACAGGGAGGGATGATTTGGAAGATATCTGAAGAT 660
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                    AAACAGCTAGCAGTTTGCCTGAAATATGCTGGAGTATTTGCAGAAAATGCAGAAGATGCT 720
Qy
DЪ
             721 GATOGAAAAGATGTATTTAATACCAAATCTGTTGGGCTTTCTATTAAAGAGGCAATGACT 780
Qу
Db
              781 TATCACCCCAACCAGGTAGTAGAAGGCTGTTGTTCAGATATGGCTGTTACTTTTAATGGA 840
Qy
                    Db
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Оy
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Qy
US-09-905-381A-340
; Sequence 340, Application US/09905381A; Patent No. 6818746; GENERAL INFORMATION:
  GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenszi, Avi
APPLICANT: Bostein, Devid
APPLICANT: Desnoyers, Luc
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Firers, Napoleone
APPLICANT: Fiveroff, Ellen
APPLICANT: Fiveroff, Ellen
APPLICANT: Goo, Wei-Qiang
APPLICANT: Genber, Hanspeter
APPLICANT: Gerritesn, Mary S.
APPLICANT: Gerritesn, Mary S.
APPLICANT: Godowski, Paul J.
    APPLICANT:
APPLICANT:
                    Godowski, Paul J.
Grimaldi, Christopher J.
    APPLICANT:
   APPLICANT: Gurney, Austin L.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kijsvin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pann, Jemes
APPLICANT: Roy, Margaret Ann
```

```
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Modd, William, I.
ITITE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
ITITE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/905,181A
CURRENT APPLICATION NUMBER: EVI/US00/04414
PRIOR APPLICATION NUMBER: 2001-07-13
PRIOR APPLICATION NUMBER: S60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR APPLICATION NUMBER: PCT/US99/2054
PRIOR APPLICATION NUMBER: PCT/US99/2054
PRIOR APPLICATION NUMBER: PCT/US99/2094
PRIOR APPLICATION NUMBER: PCT/US99/2094
PRIOR APPLICATION NUMBER: PCT/US99/2095
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR APPLICATION NUMBER: PCT/US99/2811
PRIOR APPLICATION NUMBER: PCT/US99/2812
PRIOR APPLICATION NUMBER: PCT/US99/2813
PRIOR APPLICATION NUMBER: PCT/US99/2813
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR APPLICATION NUMBER: PCT/US99/30099
PRIOR FILING DATE: 1099-11-20
PRIOR APPLICATION NUMBER: PCT/US99/30099
PRIOR APPLICATION NUMBER: PCT/US99/300999
PRIOR FILING DATE: 1000-01-05
NUMBER OF SEO ID NOS: 423
SEO ID NO 340
                                                                                                                                                                                                                                                                            Оy
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                                                                                                                                                                                                                                                                            Db
                                                                                                                                                                                                                                                                                                      121 CATCATCACCTACAGCTCCTAAGAMGAAGATATCTTGAAAATTTCAGAGGATGAGGGC 180
                                                                                                                                                                                                                                                                            Qy
                                                                                                                                                                                                                                                                            DЪ
                                                                                                                                                                                                                                                                                                      181 ATGGAGCTCAGTAAGAGCTTTCGAGTATACTGTATTATCCTTGTAAAACCCAAAGATGTG 240
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                                                                                                                                                                                                                                                                            DЪ
                                                                                                                                                                                                                                                                                                      261 ATC
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                                                                                                                                                                                                                                                                            Qy
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                                                                                                                                                                                                                                                                                                      601 CTCAATATCCCAGAAAAGTGTCCTGAACAGGGAGGGATGATTTGGAAGATATCTGAAGAT 660
                                                                                                                                                                                                                                                                            Qy
                                                                                                                                                                                                                                                                            ΩЪ
                                                                                                                                                                                                                                                                            Qy
                                                                                                                                                                                                                                                                                                      661 AAACAGCTAGCAGTTTGCCTGAAATATGCTXGAGTATTTGCAGAAAATGCAGAAATGCT 720
                                                                                                                                                                                                                                                                                                      741 AAACAGCTAGCAGTTTGCCTGAAATATGCTGGAGTATTTGCAGAAAATGCAGAAAATGCT 800
                                                                                                                                                                                                                                                                            рь
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LENGTH: 1572
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: TYPE: DNA
; ORGANISM: Homo Sapien
US-09-905-381A-340
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        Query Match
        100.0%;
        Score 957;
        DB 3;
        Length 1572;

        Best Local Similarity
        100.0%;
        Pred. No. 1.1e-279;

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        Conservative
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        Niematches
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        Indels
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                                                                                                                                  0; Indels 0; Gaps
                                                                                                                                                                                                                                                                                                      841 CTGACTCCAAATCAGATGCATGTGATGATGTATGGGGTATACCGCCTTAGGGCATTTGGG 900
                                                                                                                                                                                                                                                                            ٥v
                            1 ATGCTTTCTGAAAGCAGCTCCTTTTTGAAGGGTGTGAATGCTTGGAAGCATTTTCTGTGCT
Qy
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DЬ
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; PRIOR FILING DATE: 1999-10-05;
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR FILING DATE: 1999-12-02
PRIOR PILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR PILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR PILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US90/30999
PRIOR PILING DATE: 1999-12-05
PRIOR PILING DATE: 1999-12-07
PRIOR PILI
        Query Match 100.0%; Score 957; DB 3;
Best Local Similarity 100.0%; Pred. No. 1.1e-279;
Matches 957; Conservative 0; Mismatches 0;
                                                                                                                                                                                       Length 1572:
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 υР
  Qу
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                                                CATCATCACATACAAGCTCCTAACAAAGAAGATATCTTGAAAATTTCAGAAGGATGAGGCC 180
  Qy
                                   181 ATOGAGCTCAGTAAGAGCTTTCGAGTATACTGTATTATCCTTGTAAAACCCAAAGATGTG 240
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 DЬ
Qу
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                                    Qу
Db
Qy
```

```
APPLICANT: Kljavin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Mather, Jennie P.
APPLICANT: Panni, Nicholas F.
APPLICANT: Panni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Stewart, Timothy A.
APPLICANT: Williams, P.
Hickey
APPLICANT: Williams, P.
Hickey
APPLICANT: Williams, P.
Hickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acide Encoding the Same
PILE REFERENCE: 10465-14
CURRENT APPLICATION NUMBER: US/09/906,646
CURRENT PILINO DATE: 2002-01-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR PILIND DATE: 1000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILIND DATE: 1999-0-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILIND DATE: 1999-07-26
PRIOR FILIND DATE: 1999-07-26
PRIOR FILIND DATE: 1999-07-28
PRIOR PRICATION NUMBER: US 60/146,222
PRIOR PRICATION NUMBER: US 60/145,698
PRIOR FILIND DATE: 1999-0-15
PRIOR APPLICATION NUMBER: PCT/US99/2094
PRIOR FILIND DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/2813
PRIOR APPLICATION NUMBER: PCT/US99/2813
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR APPLICATION NUMBER: PCT/US99/28665
PRIOR APPLICATION NUMBER: PCT/US99/2009
PRIOR APPLICATION NUMBER: PCT/US99/20
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 DЪ
  Qy
                                         ### AMAGENTICALAGECTTICTATCTAGGCCACCTATAAAATCTGGAGACCTTGAATAT 620
  Db
                                                        GTGGGTATGGAAGGAGGATTGTCTTAAGTGTAGAATCAATGAAAGACTTAACAGCCTT
  Qy
  Db
                                         601 CTCAATATCCCAGAAAAGTGTCCTGAACAGGGGATGATTTGGAAGATATCTGAAGAT 660
  Qу
 Db
                                         681 CTCAATATC
                                        661 AAACAGCTAGCAGTTTGCCTGAAATATGCTGGAGTATTTGCAGAAAATGCAGAAGATGCT 720
 Qy
 Dh
  Оy
  DЪ
                                        Qy
 DЪ
                                       841 CTGACTCCAAATCAGATGCATGTGATGATGTATGGGGTATACCGCCTTAGGGCATTTGGG 900
 Qy
 DЪ
 Qy
                                         DЬ
RESULT 10
US-09-906-646-140
; Sequence 140, Application US/09906646
; Patent No. 6852848
; GENERAL INFORMATION:
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PRIOR FILING DATE: 199-12-16
PRIOR PRIOR PRIOR DATE: 199-12-20
PRIOR PRIOR PILING DATE: 1999-12-20
PRIOR PRIOR PPLICATION NUMBER: PCT/US99/30999; PRIOR PILING DATE: 1999-12-20
PRIOR PRIOR PILING DATE: 2000-01-05
NUMBER: PCT/US00/00219; PRIOR APPLICATION NUMBER: PCT/US00/00219; PRIOR FILING DATE: 2000-01-05
NUMBER: OF SEQ ID NOS: 423
SEQ ID NO 340
LENGTH: 1572
TYPE: DNA
ORGANISM: HOMO Sapien
US-09-906-646-340
           APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
          APPLICANT: Desnoyers, Luc
APPLICANT: Baton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
          APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Geritsen, Mary S.
APPLICANT: Goddard, A.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimsldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth, J.
                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 100.0%; Score 957; DB 3;
Best Local Similarity 100.0%; Pred. No. 1.1e-279;
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Matches 957; Conservative 0; Mismatches 0; Indels
                                                                                                                                   0; Gaps
                                                                                                                                                                                                                Qy
                                                                                                                                                                                                                                    841 CTGACTCCAAATCAGATGCATGTGATGATGTATGCGGTTATACCGCCTTAGGGCATTTGGG 900
 ov
                                                                                                                                                                                                                                    921 CTGACTCCAAATCAGATGCATGTGATGATGTATGGGGTATACCGCCTTAGGGCATTTTGG 980
                      81 ATGCTTTCTGAAGCAGCTCCTTTTTGAAGGGTGTCATGCTTTGGAAGCATTTTCTGTGCT 140
                                                                                                                                                                                                                DЬ
 Db
                                                                                                                                                                                                                Qy
                                                                                                                                                                                                                                    ov
                      61 TTGATCACTATGCTAGGACACATTAGGATTGGTCATGGAAATAGAATGCACCACCATGAG 120
                     Db
                     121 CATOATCACCTACAAGCTCCTAACAAAGAGAATATCTTGAAAATTTCAGAGGATGAGCGC 180
                                                                                                                                                                                                                RESULT 11
US-09-904-462-340
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                                                                                                                                                                                                                 ; Sequence 140, Application US/09904462
; Patent No. 6878807
; GENERAL INFORMATION:
. APPLICANT: Genentech, Inc.
. APPLICANT: Genentech, Inc.
. APPLICANT: Genentech, Inc.
. APPLICANT: Botostein, David
. APPLICANT: Botostein, David
. APPLICANT: Forg. Dan L.
. APPLICANT: Ferrera, Napoleone
. APPLICANT: Fivaroff, Ellen
. APPLICANT: Forg, Sherman
. APPLICANT: Genor, Hanspeter
. APPLICANT: Geritsen, Mary E.
. APPLICANT: Geritsen, Mary E.
. APPLICANT: Goddowski, Paul J.
. APPLICANT: Goddowski, Paul J.
. APPLICANT: Goddowski, Paul J.
. APPLICANT: Gridandid, Christopher J.
. APPLICANT: Gridandid, Christopher J.
. APPLICANT: Girandid, Kneneth, J.
. APPLICANT: Girandid, Kneneth, J.
. APPLICANT: Mather, Jennie P.
. APPLICANT: Mather, Jennie P.
. APPLICANT: Roy, Margaret Ann
. APPLICANT: Paoni, Nicholas F.
. APPLICANT: Tumes, Daniel
. APPLICANT: Tumes, Daniel
. APPLICANT: Tumes, Daniel
. APPLICANT: Tumes, Daniel
. APPLICANT: Mather, Service Same
. APPLICANT: Mather, Service Same
. APPLICANT: Model, William, I.
. TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
. TITLE OF INVENTION: Acide Encoding the Same
. FILE REFRENCE: 10466-14
. CURRENT FILING DATE: 2000-09-18
. PRIOR APPLICATION NUMBER: 09/695.350
. PRIOR PILING DATE: 2000-09-18
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DЪ
                    241 AGTCTTTGGGCTGCAGTAAAGGAGACTTGGACCAAACACTGTGACAAAGCAGAGTTCTTC 300
Ov
                             AGTCTTTGGGCTGCAGTAAAGGAGACTTGGACCAAACACTGTGACAAAGCAGAGCTGCTTCT 380
DЬ
                    301 AGTICTGAAAATGTTAAAGTGTTTGAGTCAATTAATATGGACACAAATGACATGTGGTTA 360
Qу
Db
                    Qy
DЬ
                    Qy
DЪ
Qy
                    481 AAGGATCCATCACAGCCTTTCTATCTAGGCCACACTATAAAATCTGGAGACCTTGAATAT 540
                     Db
Qy
                    621 GTGGGTATGGAAGGAGGAATTGTCTTAAGTGTAGAATCAATGAAAAGACTTAACAGCCTT 680
DЬ
Qу
                    681 CTCAATATCCCAGAAAAGTGTCCTGAACAGGGAGGATGATTTGGAAGATATCTGAAGAT 740
DЬ
                           AMACAGCTAGCAGTTTGCCTGAAATATGCTGGAGTATTTGCAGAAAATGCAGAAGATGCT 720
Оy
                                                                                                                                                                                                                   PRIOR PILING DATE: 2000-09-18
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR PILING DATE: 1999-07-26
PRIOR PPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR PRIOLICATION NUMBER: PCT/US99/20594
PRIOR PILING DATE: 1999-09-08
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801 GATGGAAAAGATGTATTTAATACCAAATCGGTTGCGCTTTCTATTAAAGAGGCAATGACT 860
Qy
DЪ
Qу
                    781 TATCACCCCAACCAGGTAGTAGAAGGCTGTTGTTCAGATATGGCTGTTACTTTTAATGGA
Db
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PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR APPLICATION NUMBER: PCT/US99/21089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/22214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-20
PRIOR APPLICATION NUMBER: PCT/US99/2856
PRIOR FILING DATE: 1999-11-20
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR APPLICATION NUMBER: PCT/US99/30099
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 340
LENGTH: 1572
     SEQ ID NO 340
LENGTH: 1572
TYPE: DNA
; ORGANISM: Homo Sapien
US-09-904-462-340
      Query Match 100.0%; Score 957; DB 3; Length 1572;
Best Local Similarity 100.0%; Pred. No. 1.1e-279;
Matches 957; Conservative 0; Mismatches 0: Indels 0; Gaps
                            Qу
DЬ
Ov
                            61 TTGATCACTATGCTAGGACACATTAGGATTGGTCATGGAAATAGAATGCACCACCATGAG
Db
                           141 TTGATCACTATGCTAGGACACATTAGGATTGGTCATGGAAATAGAATGCACCACCATGAG 200
                          121 CATCATCACCTACAAGCTCCTAACAAAGAAGATATCTTGAAAATTTCAGAGGATGAGCGC 180
 Qу
                         DЬ
                         181 ATGGAGCTCAGTAAGAGCTTTCGAGTATACTGTATTATCCTTGTAAAACCCAAAGATGTG 240
 Qу
                         241 AGTCTTTGGGCTGCAGTANAGGAGACTTGGACCAAACACTGTGACAAAGCAGAGTTCTTC 300
Qу
DЬ
Оy
                           301 AGTTCTGAAAATGTTAAAGTGTTTGAGTCAATTAATATGGACACAAATGACATGTGGTTA 360
```

```
APPLICANT: Gerber, Hanspeter
APPLICANT: Goddard, A.
APPLICANT: Goddard, A.
APPLICANT: Goddard, A.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Kijavin, Ivar J.
APPLICANT: Kijavin, Ivar J.
APPLICANT: Kijavin, Ivar J.
APPLICANT: Hallan, Renneth, J.
APPLICANT: Pani, James
APPLICANT: Pani, James
APPLICANT: Pani, Nicholas F.
APPLICANT: Pani, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Tumas, Daniel
APPLICANT: Tumas, Daniel
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Milliams, P. Mickey
APPLICANT: Williams, P. Mickey
APPLICANT: Williams, P. Mickey
APPLICANT: Mood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acide Encoding the Same
FILE REFRENCE: 1046-14
CURRENT APPLICATION NUMBER: US/09/902,736A
CURRENT FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR PILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR PILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR PILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR PILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/2094
PRIOR PILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/2094
PRIOR PILING DATE: 1999-09-15
PRIOR PILING DATE: 1999-09-15
PRIOR PILING DATE: 1999-10-05
PRIOR PILING DATE: 1999-11-10
PRIOR PILING DATE: 1999-11-10
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PRIOR PILING PILING DATE: 1999-12-0
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DЪ
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Qy
DЪ
Qу
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DЪ
            601 CTCAATATCCCAGAAAGTOTCCTGAACAGGGAGGGATGATTTCGAAGATATCTGAAGAT 660
Qy
οь
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Qy
DЪ
Qy
            721 GATGGAAAGATGTATTTAATACCAAATCTGTTYGGGTTTCTATTAAAGAGGGCAATGACT 780
            DЬ
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Qy
                 CTGACTCCAAATCGATTGCATGTGATGATGTATGGGGTATACCGCCTTAGGGCATTTGGG 900
Qу
DЪ
            921
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Qу
DЬ
RESULT 12
US-09-902-736A-340
; Sequence 340. Application US/09902736A
; Patent No. 6694148
; APPLICANT: Genentech, Inc.
APPLICANT: Abhanazi, Avi
APPLICANT: Abhanazi, Avi
APPLICANT: Botatein, David
APPLICANT: Botatein, David
APPLICANT: Eaton, Dan L.
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrare, Napoleone
; APPLICANT: Filwaroff, Ellen
APPLICANT: Gao, Nei-Olang
RESULT 12
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LENGTH: 1572
TYPE: DNA
ORGANISM: Homo Sapien
09-902-736A-340
  Query Match 100.0%; Score 957; DB 3; Length 1572; Best Local Similarity 100.0%; Pred. No. 1.1e-279; Matches 957; Conservative 0; Mismatches 0; Indels 0; Gaps
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DЪ
Qу
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          141 TTGATCACTATGCTAGGACACATTAGGATTGGTCATGGAAATAGAATGCACCACCATGAG 200
DЪ
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Qу
DЪ
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Qy
DЪ
              AGTCTTTGGGCTGCAGTAAAGGAGACTTGGACCAAACACTGTGACAAAGCAGAGTTCTTC 300
٥v
          241 AGTC
Db
          301 AGTICTGAAAATGITAAAGTGITTGAGTCAAITAATATGGACACAAATGACATGTGGTTA 360
Qy
nb
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             ATGATGAGAAAAGCTTACAAATACGCCTTTGATAAGTATAGAGACCAATACAACTGGTTC 420
DЬ
              Qy
DЪ
Οv
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DЬ
          561 AAGGATCCATCACA
          Qу
DЬ
          601 CTCNATATCCCAGANAGTGTCCTGAACAGGGAGGGATGATTTGGAAGATATCTGAAGAT 660
Qy
DЬ
          661 AMACAGCTAGGAGTTTGCCTGMATATGCTGGAGTATTTGCAGAAAATGCAGAAGATGCT 720
Qу
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PRIOR FILING DATE: 1999-07-26

PRIOR APPLICATION NUMBER: US 60/146,222

PRIOR PPLICATION NUMBER: US 60/146,222

PRIOR PPLICATION NUMBER: PCT/US99/20594

PRIOR PPLICATION NUMBER: PCT/US99/20594

PRIOR PPLICATION NUMBER: PCT/US99/20944

PRIOR PPLICATION NUMBER: PCT/US99/20944

PRIOR PPLICATION NUMBER: PCT/US99/21090

PRIOR PPLICATION NUMBER: PCT/US99/21547

PRIOR PPLICATION NUMBER: PCT/US99/21547

PRIOR PPLICATION NUMBER: PCT/US99/22089

PRIOR PPLICATION NUMBER: PCT/US99/28214

PRIOR PPLICATION NUMBER: PCT/US99/28214

PRIOR PPLICATION NUMBER: PCT/US99/28313

PRIOR PPLICATION NUMBER: PCT/US99/28313

PRIOR APPLICATION NUMBER: PCT/US99/28564

PRIOR PILING DATE: 1999-11-20

PRIOR APPLICATION NUMBER: PCT/US99/28566

PRIOR PILING DATE: 1999-12-02

PRIOR APPLICATION NUMBER: PCT/US99/28565

PRIOR PILING DATE: 1999-12-02

PRIOR APPLICATION NUMBER: PCT/US99/28566

PRIOR PILING DATE: 1999-12-09

PRIOR APPLICATION NUMBER: PCT/US99/30999

PRIOR PILING DATE: 1999-12-02

PRIOR APPLICATION NUMBER: PCT/US99/30999

PRIOR PILING DATE: 1999-12-20

PRIOR APPLICATION NUMBER: PCT/US99/30999

PRIOR PILING DATE: 1999-12-20

P
                                                        Qy
     DЪ
                                                          781 TATCACCCCAACCAGTAGTAAAAGGCTGTTGTTCAGATATGGCTGTTACTTTTAATGGA 840
861 TATCACCCCAACCAGTAGTAGGAGGCTGTTGTTCAGATATGGCTGTTACTTTTAATGGA 920
                                                          841 CTGACTCCAAATCAGATGCATGTGATGATGTATGGGGTATACGGCCTTTAGGGCATTTGGG 900
      Qy
      DЪ
                                                          901 CATATTTTCAATGATGCATTGGTTTTCTTACCTCCAAATGGTTCTGACAATGACTGA 957
      Qу
RESULT 13
US-09-906-722A-340
; Sequence 340, Application US/09906722A
; Patent No. 6946262
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Genentech, Inc.
; APPLICANT: Setwenzi, Avi
; APPLICANT: Setwenzi, Avi
; APPLICANT: Eaton, David
; APPLICANT: Eaton, David
; APPLICANT: Filvaroff, Slien
; APPLICANT: Genentech, Inc.
; APPLICANT: Gereta, Napoleone
; APPLICANT: Gao, Wei-Oiang
; APPLICANT: Gao, Wei-Oiang
; APPLICANT: Gereta, Many S.
; APPLICANT: Gereta, Mary S.
; APPLICANT: Gereta, Mary S.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurmey, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Hather, Jennie P.
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Williams, P. Mickey
; APPLICANT: APPLICANTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLS OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLS OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLS OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: GNS. 1618P2C61
; CURRENT FILING DATE: 2001-07-16
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/143,048
     DЬ
                                                                                                                                                                                                                                                                                                                                                                 TGA 1037

        Query Match
        100.0%;
        Score 957;
        DB 3;
        Length 1572;

        Best Local Similarity
        100.0%;
        Pred. No. 1.1e-279;

        Matches 957;
        Conservative
        0;
        Mismatches
        0;
        Indels
        0.

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 ATGCTTTCTGAAAGCAGCTCCTTTTTGAAGGGTGTGATGCTTGGAAGCATTTTCTGTGCT 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Qy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   81 ATGCTTTCTGAAAGCAGCTCCTTTTTGAAGGGTGTGATGCTTGGAAGCATTTTCTGTGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DЪ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Qy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DЪ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              121 CATCATCACCTACAAGCTCCTAACAAAGAAGTATCTTGAAAATTTCAGAAGGATGAGGGC 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Qу
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DЬ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Qy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DЬ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Qу
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               241 AGTCTTTGGGCTGCAGTAAAGGAGACTTGGACCAAACACTGTGACAAAGCAGAGTTCTTC 30
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Db
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Qy
      481 AAGGATCCATCACAGCCTTTCTATCTAGGCCACACTATAAAATCTGGAGACCTTGAATAT 540
Qν
DЬ
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Qy
DЬ
       601 CTCAATATCCCAGAAAAGTGTCCTGAACAGGGAGGGGATGATTTCGGAAGATATCTGAAGAT 660
Qy
      661 AAACAGCTAGCAGTTTGCCTGAAATATGCTGGAGTATTTGCAGAAAATGCAGAAGATGCT 720
Qy
Db
Qν
       DЬ
Qу
      DЬ
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      901 CATATTTCAATGATGCATTGGTTTTCTTACCTCCAAATGGTTCTGACAATGACTGA 957
Qy
RESULT 14
US-09-620-312D-831
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RESULT 14
US-09-620-312D-831
; Sequence 831. Application US/09620312D
; Patent No. 656962
; GRNERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Liu, Chenghus
; APPLICANT: Asundi, Vinod
; APPLICANT: Asundi, Vinod
; APPLICANT: Abung, Jie
```

```
APPLICANT: Ren, Feiyan
APPLICANT: Chen, Rui-hong
APPLICANT: Chen, Rui-hong
APPLICANT: Zhao, Qing A.
APPLICANT: Xue, Aidong J.
APPLICANT: Xue, Aidong J.
APPLICANT: Xue, Aidong J.
APPLICANT: Xue, Yonghong
APPLICANT: Xue, Yonghong
APPLICANT: Anu, Ping
APPLICANT: Man, Yunging
APPLICANT: Man, Shiwei
APPLICANT: Man, Shiwei
APPLICANT: Mang, Dunrui
APPLICANT: Dimanac, Radoje T.
ITITLE OF INVENTION: No. 6569662el Nucleic Acide and
ITITLE OF INVENTION: NUMBER: 09/682el Nucleic Acide and
ITITLE OF INVENTION: NUMBER: 09/682el Nucleic Acide and
ITITLE OF INVENTION: NUMBER: 09/488,725
PRIOR FILING DATE: 2000-01-21
NUMBER OF SEQ ID NOS: 1105
SEQ ID NO 831
LENOTH: 1477
TYPE: DNA
ORGANISH: Homo sapiens
               TYPE: DNA
ORGANISM: Homo sapiens
                FRATURE
; FBATURE:
; NAME/KEY: CDS
; LOCATION: (231)..(1187)
US-09-620-312D-831

        Query Match
        99.8%;
        Score 955.4;
        DB 3;
        Length 1477;

        Best Local Similarity
        99.9%;
        Pred. No. 3.2e-279;

        Matches 956;
        Conservative
        0;
        Mismatches 1;
        Indels 0;
        Gaps

                                     Qy
DЬ
                                       61 TTGATCACTATGCTAGGACACATTAGGATTGGTCATGGAATAGAATGCACCACCATGAG 120
QV
                                     291 TTGATCACTATG
DЪ
                                    121 CATCATCACCTACAAGCTCCTAACAAAGAAGATATCTTGAAAATTTCAGAGGATGAGCCC 180
Qу
рЬ
                                    Qу
                                     Qy
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Qу
            ATGATGAGANAGCTTACAAATAGGCCTTTGATAAGTATAGAGACCAATACAACTGGTTC 420
Qy
DЬ
            Qv
        651
DЪ
        Qy
DР
        Qy
DЪ
        601 CTCMATATCCCAGAAAGTGTCCTGAACAGGGAGGGATGATTTCGAAGATATCTGAAGAT 660
Qy
DЪ
        661 ANACAGCTAGCAGTITGCCTGAAATATGCTGGAGTATTTGCAGAAATGCAGAAGATGCT 720
Qy
Db
        Qy
DЪ
       Qy
       841 CTGACTCCAAATCAGATGCATGTGATGATGTTATGGGGTATACCGCCTTAGGGCATTTGGG 900
Q٧
рЬ
       901 CATATTTTCAATGATGCATTGCTTTTCTTACCTCCAAATGGTTCTGACAATGACTGA 957
Оy
рь
RESULT 15
US-09-513-999C-1156;
Sequence 1156, Application US/09513999C;
Patent No. 6783961;
GENERAL INFORMATION:
APPLICANT: Dummas Milne Edwards, J.B.;
APPLICANT: Duclert, A.;
APPLICANT: Giordano, J.Y.;
TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
Patent No. 6783961
 Patent No. 6783961
FILE REFERENCE: 59.US2.REG
CURRENT APPLICATION NUMBER: US/09/513,999C
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        Qy
        361
        ATGATGAGAAAAGCTTACAAATACGCCTTTGATAAGTATAGAGACCAATACAACTGGTTC
        420

        Db
        534
        ATGATGAG-AAAGCTTACAAATACGCCTTTGATAAGTATAGAGACCAATACAACTGGTTC
        592

        Cy
        421
        TTCCTTGCAGGC
        432

        Db
        593
        TTCCTTGCAGGC
        604
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Search completed: April 7, 2006, 01:30:46 Job time: 223 secs

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CURRENT FILING DATE: 2000-02-24
PRIOR APPLICATION NUMBER: US 60/122,487
PRIOR FILING DATE: 1999-02-26
NUMBER OF SEQ ID NOS: 16681
SOPTMARE: Patent.pm
SEG ID NO 1156
LENGTH: 604
       TYPE: DNA
ORGANISM: Homo sapiens
       ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: 174..602
FEATURE:
NAME/KEY: misc_feature
LOCATION: 131
OTHER INFORMATION: n=a, g, c or t
FEATURE:
NAME/KEY: misc_feature
LOCATION: 135
OTHER INFORMATION: w=a or t
FEATURE:
FEATURE:
        FEATURE:
NAME/KEY: misc_feature
        LOCATION: 137
OTHER INFORMATION: n=a, g, c or t
       OTHER INFORMATION: n=a, g, of FEATURE:
NAME/KEY: misc_feature
LOCATION: 140
OTHER INFORMATION: k=g or t
D9-513-999C-1156

        Ouery Match
        43.9%;
        Score 420;
        DB 3;
        Length 604;

        Best Local Similarity
        99.8%;
        Pred. No. 4.6e-117;

        Matches 431;
        Conservative
        0;
        Mismatches
        0;
        Indels
        1;
        Gaps

                     1 ATGCTTTCTGAAAGCAGCTCCTTTTTGAAGGGTTGATGCTTGGAAGCATTTTCTGTGCT 60
Oν
DΡ
                  Qy
DΡ
                  121 CATCATCACCTACAAGCTCCTAACAAAGAAGATATCTTGAAAATTTCAGAGGATGAGCGC 180
Qу
DЬ
                  181 ATGGAGCTCAGTAAGAGCTTTCGAGTATACTGTATTATCCTTGTAAAACCCAAAGATGTG 240
Qy
DΡ
                  Qy
DЪ
                  301 AGTTCTGAAATGTTAAAGTGTTTGAGTCAATTAATATGGACACAATGACATGTGGTTA 360
Qy
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N-PSDB; AAA96501

New human transmembrane proteins are used to treat a disease or condition associated with decreased expression of functional HTMP e.g. Tourette's disorder, angina and leukemia.

Disclosure; Page 105-106; 130pp; English.

The present sequence represents a human transmembrane proteins (HTMP). Agonists and antagonists of the protein are used to treat a disease or condition associated with overexpression of the protein. Diseases and conditions which can be treated include cell proliferative, immunological, reproductive, smooth muscle and neurological disorders e.g. arterofosits, mysloma, leukaemia, acquired immunodeficiency syndrome (AIDS), allergies, ovulatory defects, angina, hypertemsion, stroke, Alzheimer's disease, epilepsy and Tourette's disorder. The polynucleotides may be used to detect and quantify gene expression in biopsied tissues where protein expression may be correlated with disease e.g. to determine absence or excess expression of HTMP or to monitor regulation of HTMP expression during therapeutic intervention

Sequence 318 AA;

MELSKSFRVYCIILVKPKDVSLWAAVKETWTKHCDKAEFFSSENVKVFESINMDTNDMWL 120 61 MELSKSFRVYCIILVKPKDVSLWAAVKETWTKHCDKAEFFSSENVKVFESINMDTNDMML 120 181 VGMEGGIVLSVESMKRLNSLLNIPEKCPEQGGMIWKISEDKQLAVCLKYAGVFAENAEDA 240 DGKDVFNTKSVGLSIKEAMTYHPNQVVEGCCSDMAVTFNGLTPNQMHVMMYGVYRLRAFG 300 1 MLSESSSFLKGVMLGSIFCALITMLGHIRIGHGNRMHHHEHHHLQAPNKEDILKISEDER 60 0; Indels 0; Gaps 100.0%; Score 1700; DB 3; Length 318; 100.0%; Pred. No. 1e-169; Live 0; Mismatches 0; Indels 0; HIFNDALVFLPPNGSDND 318 Matches 318; Conservative Best Local Similarity 61 241 301 Query Match 301 ò g g ઠે ઠે 윰 셤 윱 ò ò ઠે g

ADC78653 standard; protein; 318 AA. ADC78653; RESULT 3 ADC78653 8 X B

01-JAN-2004 (first entry)

Human PRO310 protein.

antiinflamatory; antiulcer; cytostatic; antipaoriatic; antiparkinsonian; nootropic; neuroprotective; vasotropic; chemotaxic; angiogenic; neurotrophic; oateopathic; antiasthmatic; antiarthritic; antirheumatic; antiarteriosclerotic; cardiant; antidabetic; cerebroprotective; thrombolytic; immunomodulator; enterocolitis; Zollinger-Ellison syndrome; gastrointestinal ulceration; psoriasis; cancer; Parkinson's disease; halveimer's ALS; neuropathy; dermal scarring; wound healing; nerve repair; thrombosis; bone; cartilage formation; angiogenesis; asthma; rheumatorid arthritis; multiple sclerosis; inflammatory disorder; atherosclerosis; cardiac injury; infertility; premature aging; AlbS; diabetes; stroke; gene therapy; transgenic; PRO; human.

Homo sapiens.

WO200015796-A2.

23-MAR-2000.

99WO-US021090. 15-SEP-1999; 98WO-US019330. 16-SEP-1998;

(GETH) GENENTECH INC

Chen J, Goddard A, Gurney AL, Hillan K, Pennica D, Wood WI; Yuan J;

WPI; 2000-271434/23. N-PSDB; ADC78652. Novel nucleic acids encoding secreted and transmembrane polypeptides with homology, e.g. to growth and cancer-associated antigens.

Claim 12; SEQ ID NO 341; 355pp; English.

The polypeptides and polynucleotides of the invention may be useful as research tools and as therapeutics for treating enterocolitis, Zollinger-Bilson syndrome, gastrointeetinal ulceration, psoriasis, cancer, Parkinson's disease, Alzheimer's disease, ALS, neuropathies, dermal scarring and wound healing, nerve repair, thrombosis, bone and/or cartilage formation, angiogenesis, asthma, rheumatoid arthritis, multiple scarrings, inflammatory disorders, antherosclerosis, cardiac injury, infertility, premature aging, AIDS, diabetes complications and stroke. The molecules may also be utilised during gene therapy procedures and transgenic animal production. The current sequence is that of the human The invention relates to a novel nucleic acid encoding a PRO polypeptide PRO protein of the invention.

Seguence 318 AA;

Score 1700; DB 3; Length 318; Pred. No. 1e-169; 100.0%; Best Local Similarity Query Match

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                                                      MMRKAYKYAFDKYRDQYNWFFLARPTTFALIENLKYFLLKKDPSQPFYLGHTIKSGDLEY 180
                                                                                                     181 VGMEGGIVLSVESMKRLINSLLNIPEKCPEQGGMIWKISEDKQLAVCLKYAGVFAENAEDA 240
                                                                                                                                         DGKDVFNTKSVGLSIKEAMTYHPNQVVEGCCSDMAVTFNGLTPNQMHVMMYGVYRLRAFG 300
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                                                                                                                                                                                                                                                                                                                                                      Human, PRO; dermatological; antipsoriatic; cytostatic; antiinflammatory; antiparkinsonian nootropic; neuroprotective; vulnerary; cardiant; antiangiogenic; vasotropic; antiasthmatic; antirheumatic; cancer; antiarthritic; antiinfertility; antidiabetic; antiviral; diabetes; ophthalmological; gene therapy; skin disease; gastrointestinal disorder; ischaemia; inflammation.
                 Gaps
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 Indels
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0; Mismatches
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                                                                                                                                                                                                            HIFNDALVFLPPNGSDND 318
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99US-0145698P.
99US-0146222P.
99WO-US020594.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               22-FEB-2000; 2000WO-US004414.
                                                                                                                                                                                                                                                                                                                 24-APR-2001 (first entry)
Matches 318; Conservative
                                                                                                                                                                                                                                                                                                                                   Human PRO310 protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                          WO200104311-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          26-JUL-1999;
28-JUL-1999;
08-SEP-1999;
13-SEP-1999;
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381 AGTICTGAAAHGITAAAGIGTTTGAGTCAATTAATATGGACACAAATGACATGTGGTTA 440
                          GTGGCTATGGAAGGAGGAATTGTCTTAAGTGTAGAATCAATGAAAAGACTTAACAGCCTT 600
                                                                                                                                           601 CTCAATATCCCAGAAAGTGTCCTGAACAGGGAGGGATGATTTGGAAGATATCTGAAGAT 660
                                                                                                                                                                                661 AAACAGCTAGCAGTTTGCCTGAAATATGCTGGAGTATTTGCAGAAAATGCAGAAGATGCT 720
                                                                                                                                                                                                                     GAIGGAAAAGAIGIATTIAAIACCAAAICTGTIGGGCTTITCTATTAAAGAGGCAAIGACT 780
                                                                                                                                                                                                                                                         TATCACCCCAACCAGGTAGTAGAAGGCTGTTGTTCAGATATGGCTGTTACTTTTAATGGA 840
                                                                                                                                                                                                                                                                                              CTGACTCCAAATCAGATGCATGTGATGTATGGGGTATACCGCCTTAGGGCATTTGGG 900
                                                                                                                                                                                                                                                                                                                                                                         CATAITITICAAIGAIGCAITIGGITTITCITACCICCAAAIGGITICIGACAAIGACTGA 957
               ATGATGAGAAAAGCTTACAAATACGCCTTTGATAAGTATAGAGACCAATACAACTGGTTC
                                                                                            AAGGATCCATCACAGCCTTTCTATCTAGGCCACACTATAAAATCTGGAGACCTTGAATAT
                                                                                                                                                                                                                                                                                                                                                                                                                                ADC78652 standard; cDNA; 1572
                  361
                                                       421
                                                                                           481
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                                                                                                                                                                                                                                                                                                       861
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Chen J, Goddard A, Gurney AL, Hillan K, Pennica D, Wood WI; Yuan J;

WPI; 2000-271434/23. P-PSDB; ADC78653

(GETH) GENENTECH INC.

16-SEP-1998;

99WO-US021090. 98WO-US019330.

15-SEP-1999; 23-MAR-2000.

WO200015796-A2.

Homo sapiens.

thrombolytic; immunomodulator; enterocolitis; Zollinger-Ellison syndrome;

gastrointestinal ulceration; psoriasis; cancer; Parkinson's disease; Alzheimer's; ALS; neuropathy; dermal scarring; wound healing; enerye repair; thrombosis; bone; cartilage formation; angiogenesis; asthma; rheumatorid arthritis; multiple sclerosis; inflammatory disorder; atheroseclerosis; cardiac injury; infertility; premature aging; AIDS; diabetes; stroke; gene therapy; transgenic; PRO; human; ss; gene.

Elison syndrome, gastrointestinal ulceration, psoriasis, cancer, stringes of s 140 Novel nucleic acids encoding secreted and transmembrane polypeptides with homology, e.g. to growth and cancer-associated antigens. The invention relates to a novel nucleic acid encoding a PRO polypeptide. The polypeptides and polynucleotides of the invention may be useful as research tools and as therapeutics for treating enterocolitis, Zollinger-9 1 ATGCTTTCTGAAAGCAGCTCCTTTTTGAAGGGTGTGATGCTTGGAAGCATTTTCTGTGCT ; Sequence 1572 BP; 499 A; 254 C; 330 G; 489 T; 0 U; 0 Other; 0; Indels 'Match 100.0%; Score 957; DB 3; L Local Similarity 100.0%; Pred. No. 7.8e-263; 0; Mismatches Claim 2; SEQ ID NO 340; 355pp; English. PRO CDNA of the invention. Matches 957; Conservative Query

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antiinflamatory; antiulcer; cytostatic; antipsoriatic; antiparkinsonian; nootropic; neuroprotective; vasotropic; chemotaxic; angiogenic; neurotrophic; osteopathic; antiasthmatic; antiarthritic; antirheumatic; antiarteriosclerotic; cardiant; antidiabetic; cerebroprotective;

(first entry)

Human PRO310 cDNA. 01-JAN-2004

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ò	121	CATCATCACCTACAAGCTCCTAACAAGAAGATATCTTGAAAATTTCAGAGGATGAGCGC 180
a	201	
ò	181	
q	261	AFGAGCTCAGTAAGAGCTTTCGAGTATACTGTATTATCCTTGTAAAACCCCAAAGATGTG 320
ò	241	AGTCTTTGGGCTGCAGTAAAGGAGACTTGGACCAAACACTGTGACAAAGCAGAGTTCTTC 300
Dp	321	AGICTITIGGGCTGCAGTAAAGGAGACTIGGACCAACACTGTGACAAAGCAGAGTTCTTC 380
ò	301	AGTICTGAAAATGTTAAAGTGTTTGAGTCAATTAATATGACACAAAATGACATGTGGTTA 360
q	381	
è	361	42
q _O	441	ATGATGAGAAAAGCTTACAAATACGCCTTTGATAAGTATAGAGACCAATACAACTGGTTC 500
ò	421	TICCTIGCACGCCCCACTACGTTIGCTATCATAGAAACCTAAAGGTATTTTTTGTTAAAA 480
qq	501	TICCTIGCACGCCCCACTACGTTIGCATIGAAAACCTAAAGTATTTTTTGTTAAAA 560
ò	481	AAGGATCCATCACAGCCTTTCTATCTAGGCCACACTATAAAATCTGGAGACCTTGAATAT 540
qq	561	
ò	541	GTGGGTATGGAAGGAGTTGTCTTAAGTGTAGAATCAATGAAAAGACTTAACAGCCTT 600
q	621	GTGGGTATGGAAGGAGGAATTGTCTTAAGTGTAGAATCAATGAAAAGACTTAACAGCTT 680
ò	601	CTCAATATCCCAGAAAAGTGTCCTGAACAGGGAGGGGATGATTTGGAAGATATCTGAAGAT 660
qq	681	CTCAATATCCCAGAAAAGTGTCCTGAACAGGGAGGGATTGGAATTTGGAAGATATCTGAAGAT 740
ò	661	AAACAGCTAGCAGTTTGCCTGAAATATGCTGGAGTATTTGCAGAAAATGCAGAAGATGCT 720
qq	741	
%	721	GATGGAAAGATGTATTTAATACCAAATCTGTTGGCTTTCTATTAAAGAGGCAATGACT 780
Ор	801	GATGGAAAAGATGTATTTAATACCAAATCTGTTGGGCTTTCTATTAAAGAGGCAATGACT 860
ò	781	TATCACCCCAACCAGGTAGTAGAAGGCTGTTGTTCAGATATGGCTGTTACTTTTAATGGA 840
g	861	INTERCECEARCEAGE
È	841	CTGACTCCAAATCAGATGCATGTGATGATGGAGGTATACCGCCTTAGGGCATTTGGG 900
ф	921	CTGACTCCAAATCAGATGCATGTGATGTATGGGGTATACCGCCTTAGGGCATTTGGG 980
È	901	CATATITICAATGATGGATTGGTTTTCTTACCTCCAAATGGTTCTGACAATGACTGA 957
8	981	CATAITITCAATGATGCATTGCTTTTCTTACCTCCAAATGCTTCTGACAATGACTGA 1037